



GE Medical Systems

Technical Publications

Direction 2173229–100

Revision 5

AMX–4+ Schematics (Model 2169360, 2236420 & 2275938 Series)

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Operating Documentation

WARNING

- THIS SERVICE MANUAL IS AVAILABLE IN ENGLISH ONLY.
- IF A CUSTOMER'S SERVICE PROVIDER REQUIRES A LANGUAGE OTHER THAN ENGLISH, IT IS THE CUSTOMER'S RESPONSIBILITY TO PROVIDE TRANSLATION SERVICES.
- DO NOT ATTEMPT TO SERVICE THE EQUIPMENT UNLESS THIS SERVICE MANUAL HAS BEEN CONSULTED AND IS UNDERSTOOD.
- FAILURE TO HEED THIS WARNING MAY RESULT IN INJURY TO THE SERVICE PROVIDER, OPERATOR OR PATIENT FROM ELECTRIC SHOCK, MECHANICAL OR OTHER HAZARDS.

AVERTISSEMENT

- CE MANUEL DE MAINTENANCE N'EST DISPONIBLE QU'EN ANGLAIS.
- SI LE TECHNICIEN DU CLIENT A BESOIN DE CE MANUEL DANS UNE AUTRE LANGUE QUE L'ANGLAIS, C'EST AU CLIENT QU'IL INCOMBE DE LE FAIRE TRADUIRE.
- NE PAS TENTER D'INTERVENTION SUR LES ÉQUIPEMENTS TANT QUE LE MANUEL SERVICE N'A PAS ÉTÉ CONSULTÉ ET COMPRIS.
- LE NON-RESPECT DE CET AVERTISSEMENT PEUT ENTRAÎNER CHEZ LE TECHNICIEN, L'OPÉRATEUR OU LE PATIENT DES BLESSURES DUES À DES DANGERS ÉLECTRIQUES, MÉCANIQUES OU AUTRES.

WARNUNG

- DIESES KUNDENDIENST-HANDBUCH EXISTIERT NUR IN ENGLISCHER SPRACHE.
- FALLS EIN FREMDER KUNDENDIENST EINE ANDERE SPRACHE BENÖTIGT, IST ES AUFGABE DES KUNDEN FÜR EINE ENTSPRECHENDE ÜBERSETZUNG ZU SORGEN.
- VERSUCHEN SIE NICHT, DAS GERÄT ZU REPARIEREN, BEVOR DIESES KUNDENDIENST-HANDBUCH NICHT ZU RATE GEZOGEN UND VERSTANDEN WURDE.
- WIRD DIESE WARNUNG NICHT BEACHTET, SO KANN ES ZU VERLETZUNGEN DES KUNDENDIENSTTECHNIKERS, DES BEDIENERS ODER DES PATIENTEN DURCH ELEKTRISCHE SCHLÄGE, MECHANISCHE ODER SONSTIGE GEFAHREN KOMMEN.

AVISO

- ESTE MANUAL DE SERVICIO SÓLO EXISTE EN INGLÉS.
- SI ALGÚN PROVEEDOR DE SERVICIOS AJENO A GEMS SOLICITA UN IDIOMA QUE NO SEA EL INGLÉS, ES RESPONSABILIDAD DEL CLIENTE OFRECER UN SERVICIO DE TRADUCCIÓN.
- NO SE DEBERÁ DAR SERVICIO TÉCNICO AL EQUIPO, SIN HABER CONSULTADO Y COMPRENDIDO ESTE MANUAL DE SERVICIO.
- LA NO OBSERVANCIA DEL PRESENTE AVISO PUEDE DAR LUGAR A QUE EL PROVEEDOR DE SERVICIOS, EL OPERADOR O EL PACIENTE SUFRAN LESIONES PROVOCADAS POR CAUSAS ELÉCTRICAS, MECÁNICAS O DE OTRA NATURALEZA.

ATENÇÃO

- ESTE MANUAL DE ASSISTÊNCIA TÉCNICA SÓ SE ENCONTRA DISPONÍVEL EM INGLÊS.
- SE QUALQUER OUTRO SERVIÇO DE ASSISTÊNCIA TÉCNICA, QUE NÃO A GEMS, SOLICITAR ESTES MANUAIS NOUTRO IDIOMA, É DA RESPONSABILIDADE DO CLIENTE FORNECER OS SERVIÇOS DE TRADUÇÃO.
- NÃO TENHA TENTADO REPARAR O EQUIPAMENTO SEM TER CONSULTADO E COMPREENDIDO ESTE MANUAL DE ASSISTÊNCIA TÉCNICA.
- O NÃO CUMPRIMENTO DESTA AVISO PODE POR EM PERIGO A SEGURANÇA DO TÉCNICO, OPERADOR OU PACIENTE DEVIDO A CHOQUES ELÉTRICOS, MECÂNICOS OU OUTROS.

AVVERTENZA

- IL PRESENTE MANUALE DI MANUTENZIONE È DISPONIBILE SOLTANTO IN INGLESE.
- SE UN ADDETTO ALLA MANUTENZIONE ESTERNO ALLA GEMS RICHIEDE IL MANUALE IN UNA LINGUA DIVERSA, IL CLIENTE È TENUTO A PROVVEDERE DIRETTAMENTE ALLA TRADUZIONE.
- SI PROCEDA ALLA MANUTENZIONE DELL'APPARECCHIATURA SOLO DOPO AVER CONSULTATO IL PRESENTE MANUALE ED AVERNE COMPRESO IL CONTENUTO.
- NON TENERE CONTO DELLA PRESENTE AVVERTENZA POTREBBE FAR COMPIERE OPERAZIONI DA CUI DERIVINO LESIONI ALL'ADDETTO ALLA MANUTENZIONE, ALL'UTILIZZATORE ED AL PAZIENTE PER FOLGORAZIONE ELETTRICA, PER URTI MECCANICI OD ALTRI RISCHI.

警告

- ・ このサービスマニュアルには英語版しかありません。
- ・ GEMS以外でサービスを担当される業者が英語以外の言語を要求される場合、翻訳作業はその業者の責任で行うものとさせていただきます。
- ・ このサービスマニュアルを熟読し理解せずに、装置のサービスを行わないで下さい。
- ・ この警告に従わない場合、サービスを担当される方、操作員あるいは患者さんが、感電や機械的又はその他の危険により負傷する可能性があります。

注意:

- 本维修手册仅存有英文本。
- 非 GEMS 公司的维修员要求非英文本的维修手册时，客户需自行负责翻译。
- 未详细阅读和完全了解本手册之前，不得进行维修。
- 忽略本注意事项会对维修员，操作员或病人造成触电，机械伤害或其他伤害。

Direction 2173229-100

Revision 5

AMX-4+ Schematics (Model 2169360, 2236420 & 2275938 Series)

IMPORTANT! . . . X-RAY PROTECTION



X-ray equipment if not properly used may cause injury. Accordingly, the instructions herein contained should be thoroughly read and understood by everyone who will use the equipment before you attempt to place this equipment in operation. The General Electric Company, Medical Systems Group, will be glad to assist and cooperate in placing this equipment in use.

Although this apparatus incorporates a high degree of protection against x-radiation other than the useful beam, no practical design of equipment can provide complete protection. Nor can any practical

design compel the operator to take adequate precautions to prevent the possibility of any persons carelessly exposing themselves or others to radiation.

It is important that everyone having anything to do with x-radiation be properly trained and fully acquainted with the recommendations of the National Council on Radiation Protection and Measurements as published in NCRP Reports available from NCRP Publications, 7910 Woodmont Avenue, Room 1016, Bethesda, Maryland 20814, and of the International Commission on Radiation Protec-

tion, and take adequate steps to protect against injury.

The equipment is sold with the understanding that the General Electric Company, Medical Systems Group, its agents, and representatives have no responsibility for injury or damage which may result from improper use of the equipment.

Various protective material and devices are available. It is urged that such materials or devices be used.

CAUTION: United States Federal law restricts this device to use by or on the order of a physician.

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If you have any comments, suggestions or corrections to the information in this document, please write them down, include the document title and document number, and send them to:

**GENERAL ELECTRIC COMPANY
MEDICAL SYSTEMS**

MANAGER – INFORMATION INTEGRATION, AMERICAS W-622
P.O. BOX 414
MILWAUKEE, WI 53201-0414

CERTIFIED ELECTRICAL CONTRACTOR STATEMENT



All electrical installations that are preliminary to positioning of the equipment at the site prepared for the equipment shall be performed by licensed electrical contractors. In addition, electrical feeds into the Power Distribution Unit shall be performed by licensed electrical contractors. Other connections between pieces of electrical equipment, calibrations, and testing shall be

performed by qualified GE Medical personnel. The products involved (and the accompanying electrical installations) are highly sophisticated, and special engineering competence is required. In performing all electrical work on these products, GE will use its own specially trained field engineers. All of GE's electrical work on these products will comply with the

requirements of the applicable electrical codes.

The purchaser of GE equipment shall only utilize qualified personnel (i.e., GE's field engineers, personnel of third-party service companies with equivalent training, or licensed electricians) to perform electrical servicing on the equipment.

DAMAGE IN TRANSPORTATION

All packages should be closely examined at time of delivery. If damage is apparent, have notation "**damage in shipment**" written on **all** copies of the freight or express bill **before** delivery is accepted or "signed for" by a General Electric representative or a hospital receiving agent. Whether noted or concealed, damage **MUST** be reported to the carrier **immediately**

upon discovery, or in any event, within **14** days after receipt, and the contents and containers held for inspection by the carrier. A transportation company will not pay a claim for damage if an inspection is not requested within this **14** day period.

Call Traffic and Transportation, Milwaukee, WI (414) 827-3449 /

8*285-3449 **immediately** after damage is found. At this time be ready to supply name of carrier, delivery date, consignee name, freight or express bill number, item damaged and extent of damage.

Complete instructions regarding claim procedure are found in Section "S" of the Policy & Procedure Bulletins.

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| | AMX1 A2 S1 HALL EFFECT TUBE PARKED SENSOR 46-288962-S | 14-3 |
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REVISION HISTORY

| REV | DATE | REASON FOR CHANGE |
|-----|---------------|---|
| 0 | Dec 13, 1996 | Initial release. |
| 1 | Mar. 7 1997 | Changes to Section 2. |
| 2 | June 24 1997 | Added Section 16 (Relay Chassis Assembly); added 2173060SCH to Section 14; corrected 2115090sch in Section 2. |
| 3 | Aug. 15, 1997 | Updated schematic 2115090sch. High Impact Inspection. |
| 4 | Apr. 12, 1999 | Updated schematics 2115090sch, 46-232786-s. |
| 5 | Nov. 8, 2000 | Added 2275938 series. Updated schematics. |

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| 13-1 thru 13-4 | 5 | | | | |
| 14-1 thru 14-4 | 5 | | | | |

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AMX-4+ SCHEMATICS

SECTION 1 INTRODUCTION

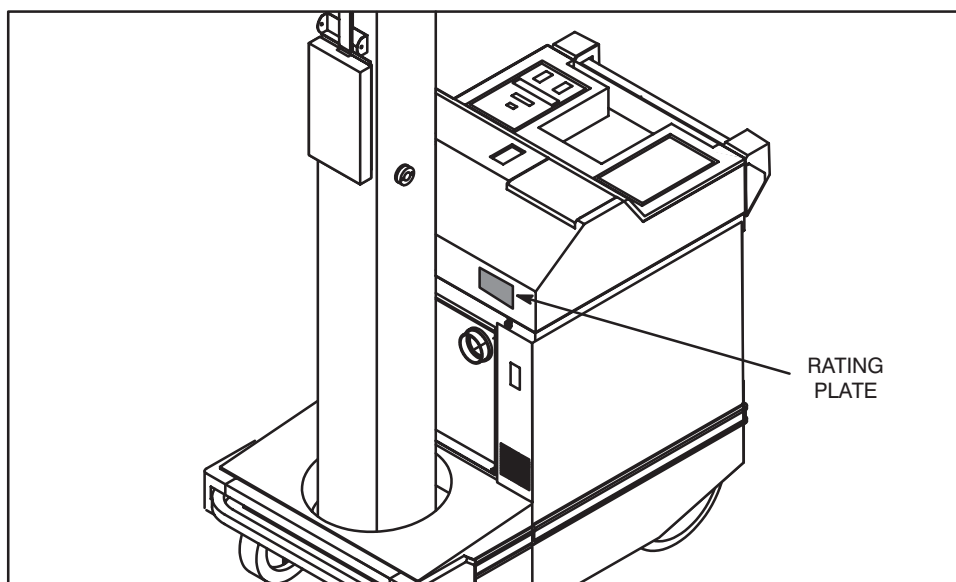
1-1 Identification

See Illustration 1. The AMX-4+ is identified by Model Number on the rating plate located on the top cover. Model part and catalog numbers are identified in Table 1. This direction contains schematic diagrams for these units.

TABLE 1
AMX-4+ MODELS

| DESCRIPTION | PART NUMBER | CATALOG NUMBER | PART NUMBER | CATALOG NUMBER |
|----------------------------|-------------|----------------|-------------------------|----------------|
| DOMESTIC | 2169360-7 | A0659F | 2236420-7 & 2275938-7 | A0659JF |
| DOMESTIC, AEC | 2169360-8 | A0659FA | 2236420-8 & 2275938-8 | A0659JG |
| DOMESTIC, TECH SWITCH | 2169360-9 | A0659FC | 2236420-9 & 2275938-9 | A0659JH |
| DOMESTIC, AEC, TECH SWITCH | 2169360-10 | A0659FB | 2236420-10 & 2275938-10 | A0659JJ |
| IEC, EMC | 2169360 | A0659A | 2236420 & 2275938 | A0659J |
| IEC, EMC, AEC | 2169360-2 | A0659AA | 2236420-2 & 2275938-2 | A0659JA |
| IEC, EMC, TECH SWITCH | 2169360-3 | A0659AB | 2236420-3 & 2275938-3 | A0659JB |
| IEC, EMC, AEC, TECH SWITCH | 2169360-4 | A0659AC | 2236420-4 & 2275938-4 | A0659JC |
| JAPAN | 2169360-5 | A0659C | 2236420-5 & 2275938-5 | A0659JD |
| JAPAN SHORT COLUMN | 2169360-6 | A0659D | 2236420-6 & 2275938-6 | A0659JE |

ILLUSTRATION 1
AMX-4+ IDENTIFICATION



1-2 General

The AMX-4+ contains operating safeguards providing maximum safety. Before servicing, be certain proper operating procedures are being used. Refer to Direction 2166913-100 *AMX-4+ Operation* or to Direction 2166911-100 *AMX-4+ International Operation* for proper operating procedures.

Satisfactory equipment performance requires the use of service personnel specially trained on x-ray apparatus. The GE Medical Systems, is responsible for the effects on safety, reliability, and performance only if the following conditions are met:

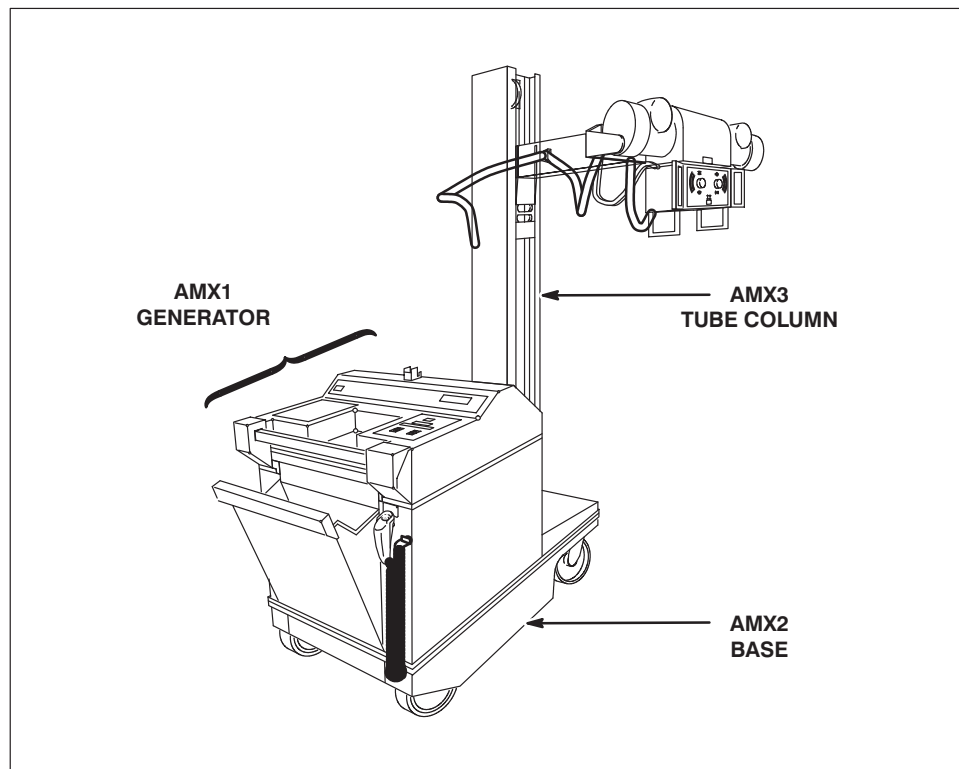
- The electrical wiring of the relevant rooms complies with all national and local codes.
- All assembly operations, extensions, re-adjustments, modifications, or repairs are carried out by GE Medical Systems, authorized service representatives.
- The equipment is used in accordance with the instructions for use. Refer to Direction 2166913-100 *AMX-4+ Operation* or to Direction 2166911-100 *AMX-4+ International Operation* for proper operating procedures.



Only trained and qualified personnel should be permitted access to the internal parts of this equipment.

1-3 Assembly Designators

ILLUSTRATION 2
ASSEMBLY DESIGNATORS



Schematics and Terminal Strips are arranged in Assembly Designator order. Assembly Designators are codes which simplify component identification. The code is a convenient shorthand which defines each assembly or component. Assembly Designators are derived from the location of components and assemblies within a major assembly. Refer to Illustration 2 and the following list for AMX-4+ codes:

- AMX1 Generator
 - AMX1 A1 Top Cover
 - AMX1 A2 Top Deck (under cover)
 - AMX1 A3 Left Side
 - AMX1 A4 Right Side
 - AMX1 A5 Rear
 - AMX1 A6 High Voltage Transformer
- AMX2 Base
 - AMX2 A1 Rear
 - AMX2 A2 Front
 - AMX2 A3 Battery
- AMX3 Column
 - AMX3 A1 Column
 - AMX3 A2 Tube Arm
 - AMX3 A3 Tube
 - AMX3 A4 Collimator

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REV 5

DIRECTION 2173229-100

SECTION 2
AMX-4 OVERALL WIRING

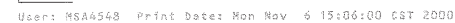
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| MODEL 2169360 SERIES: | | |
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| | 2169360-2 | 2169360-7 |
| | 2169360-3 | 2169360-8 |
| | 2169360-4 | 2169360-9 |
| | 2169360-5 | 2169360-10 |

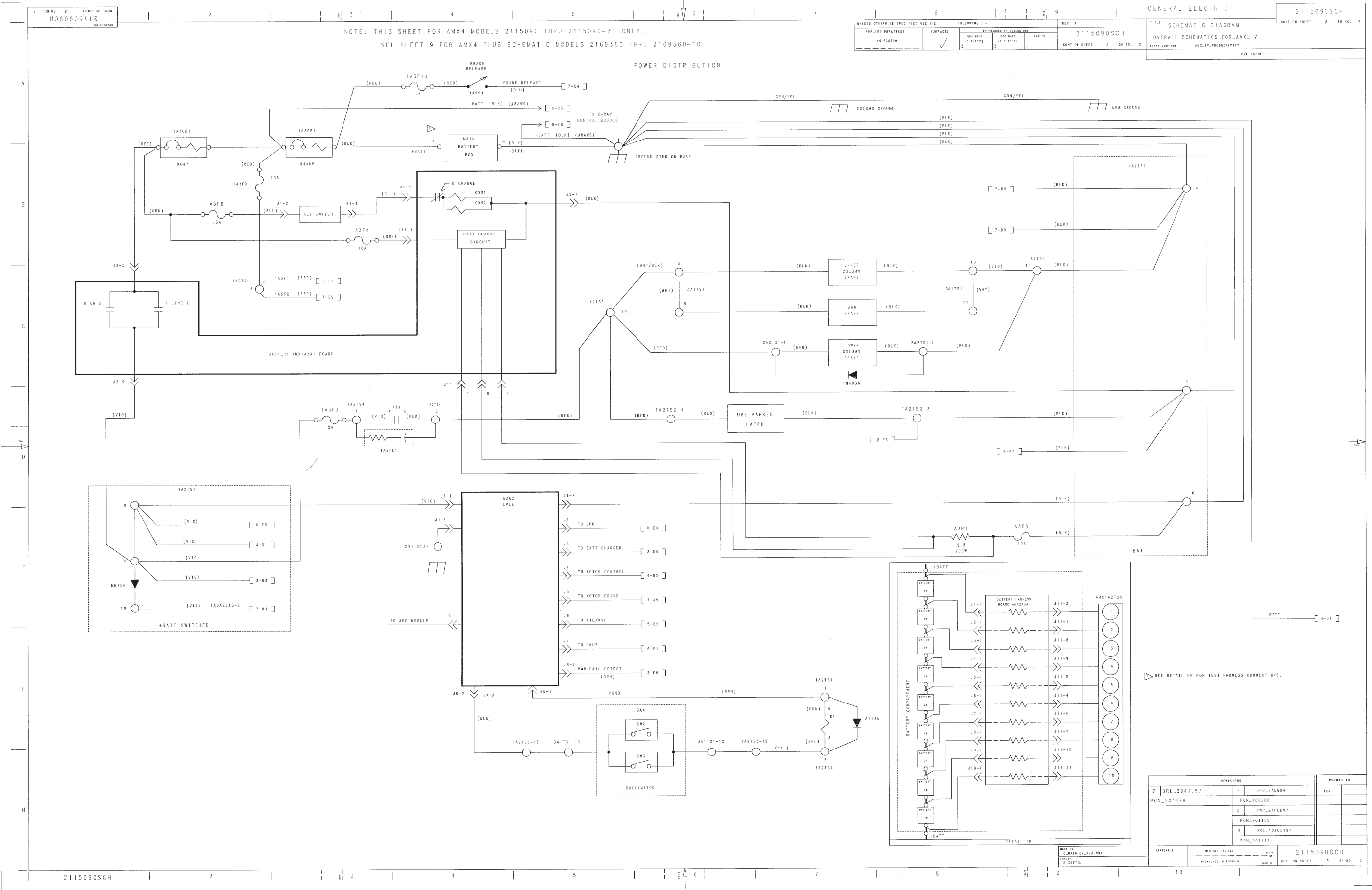
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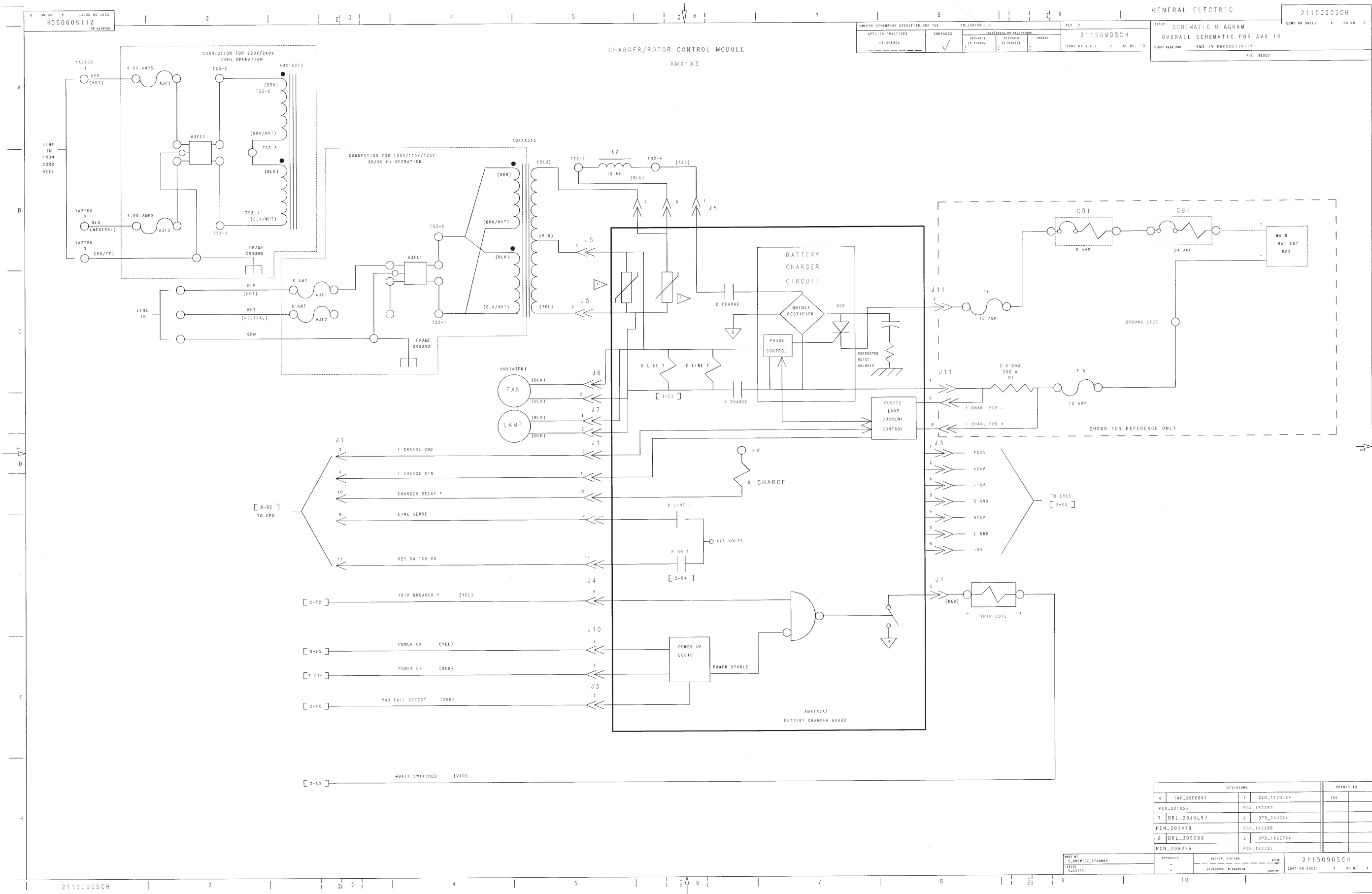
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|-----------------------|-----------|------------|
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| | 2275938-2 | 2275938-7 |
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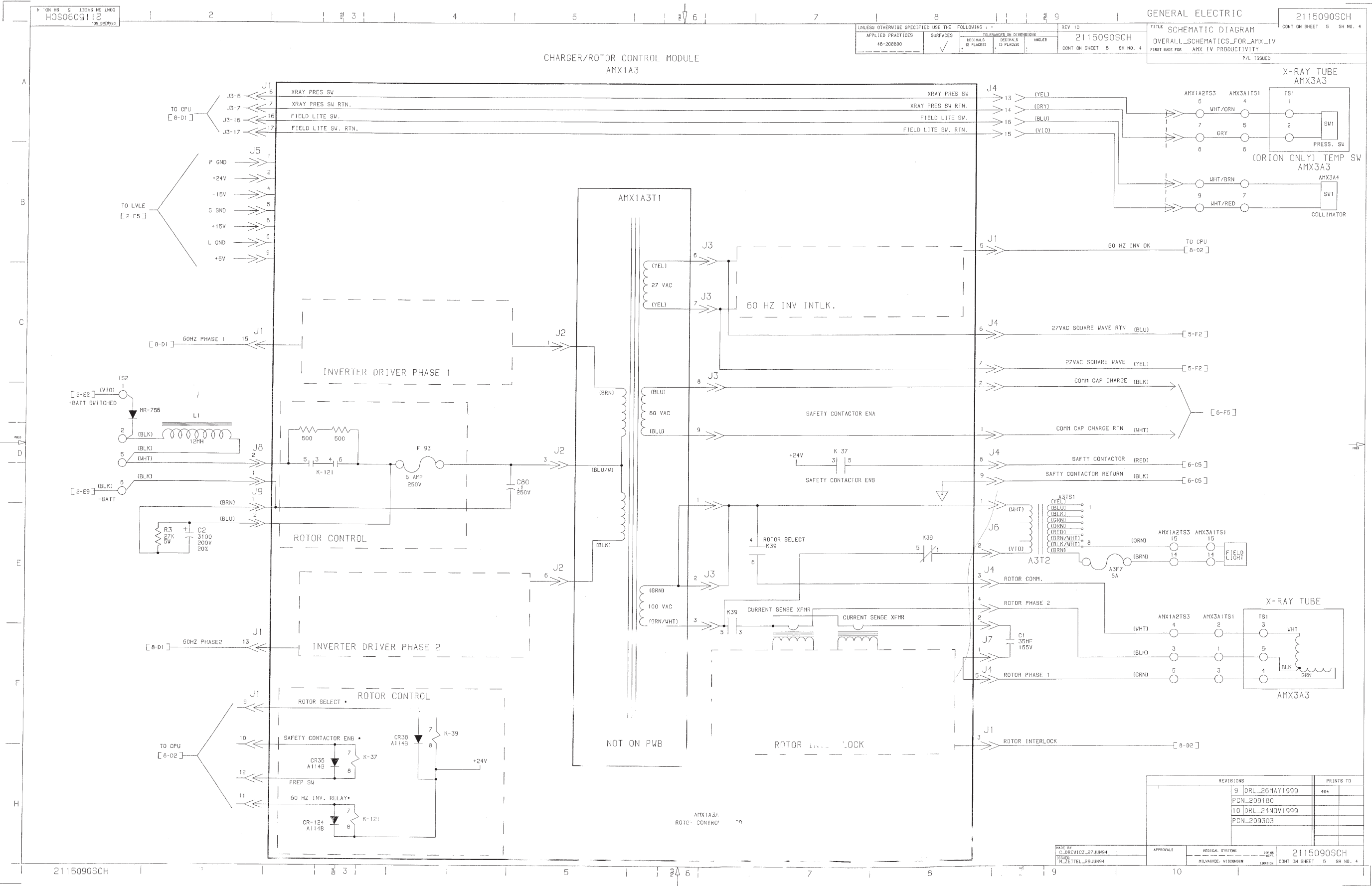
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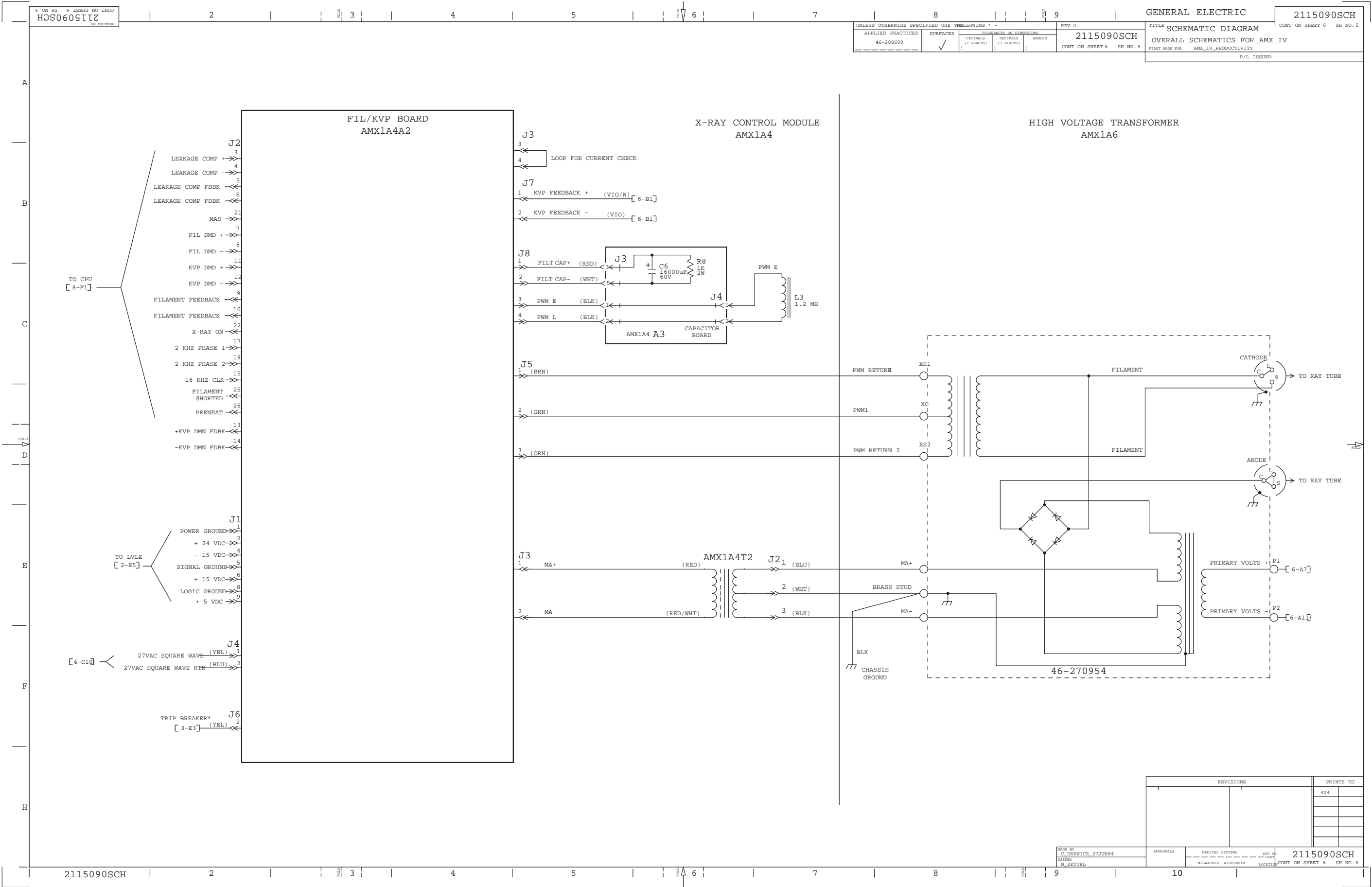
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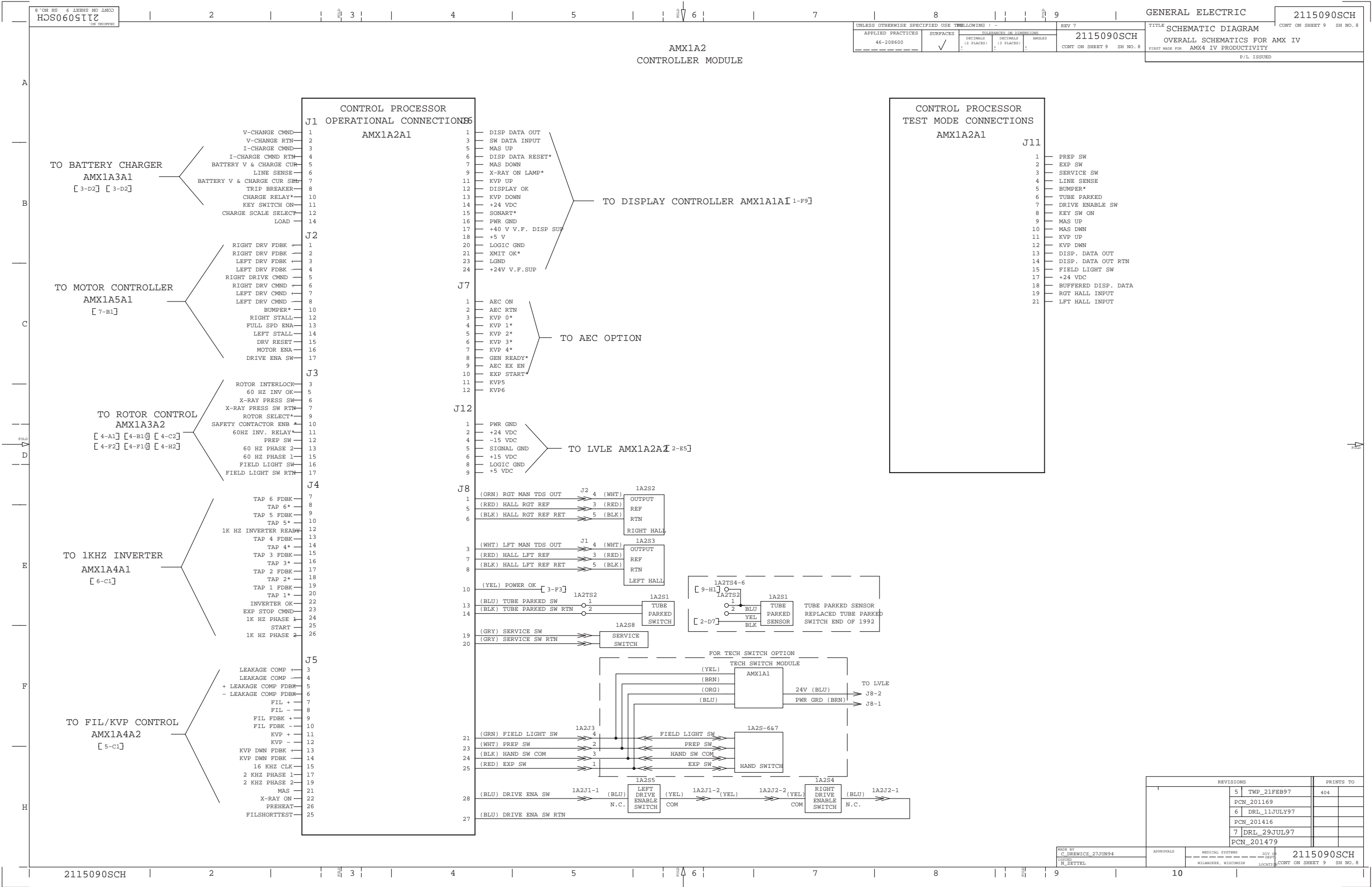








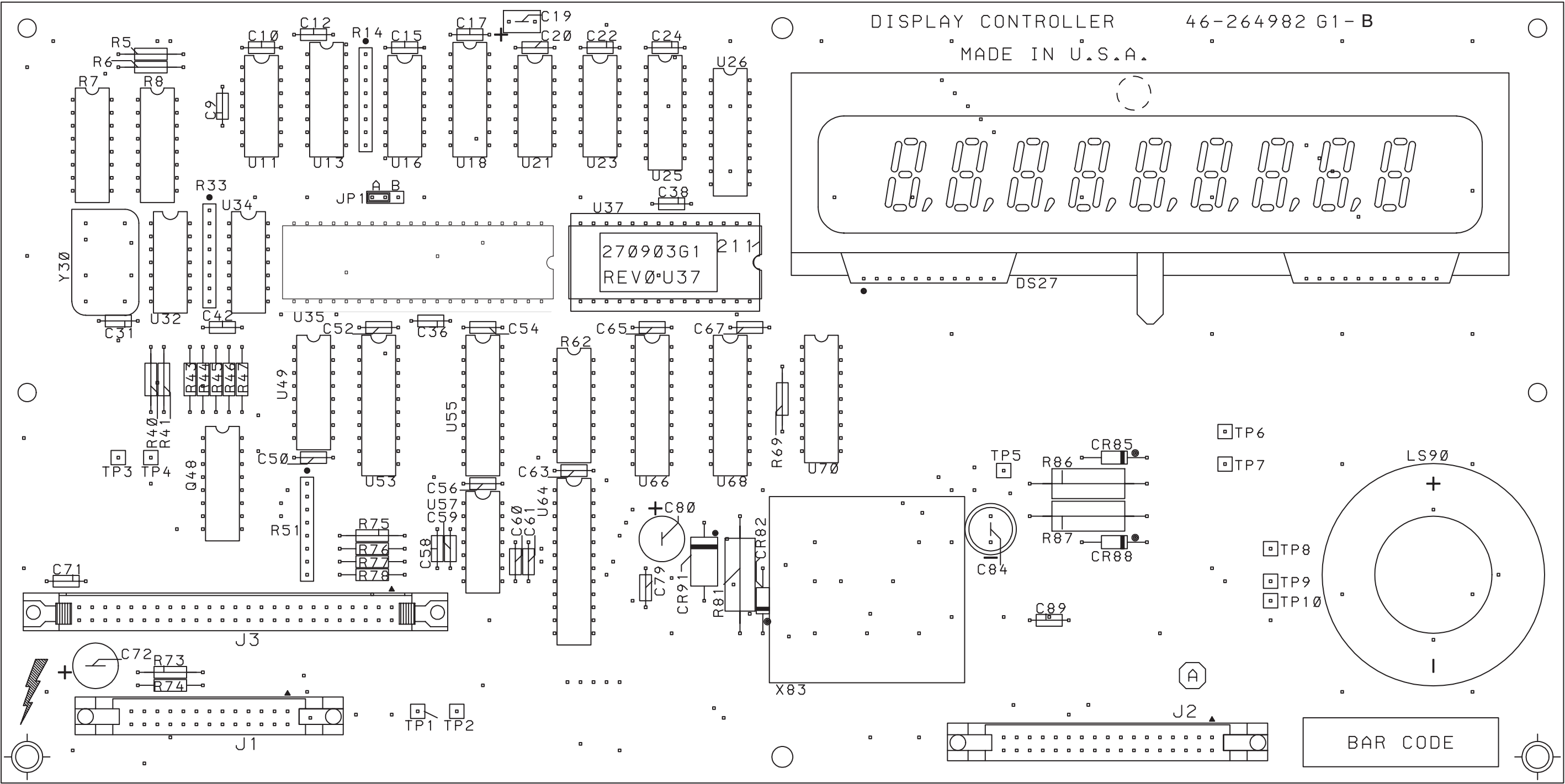




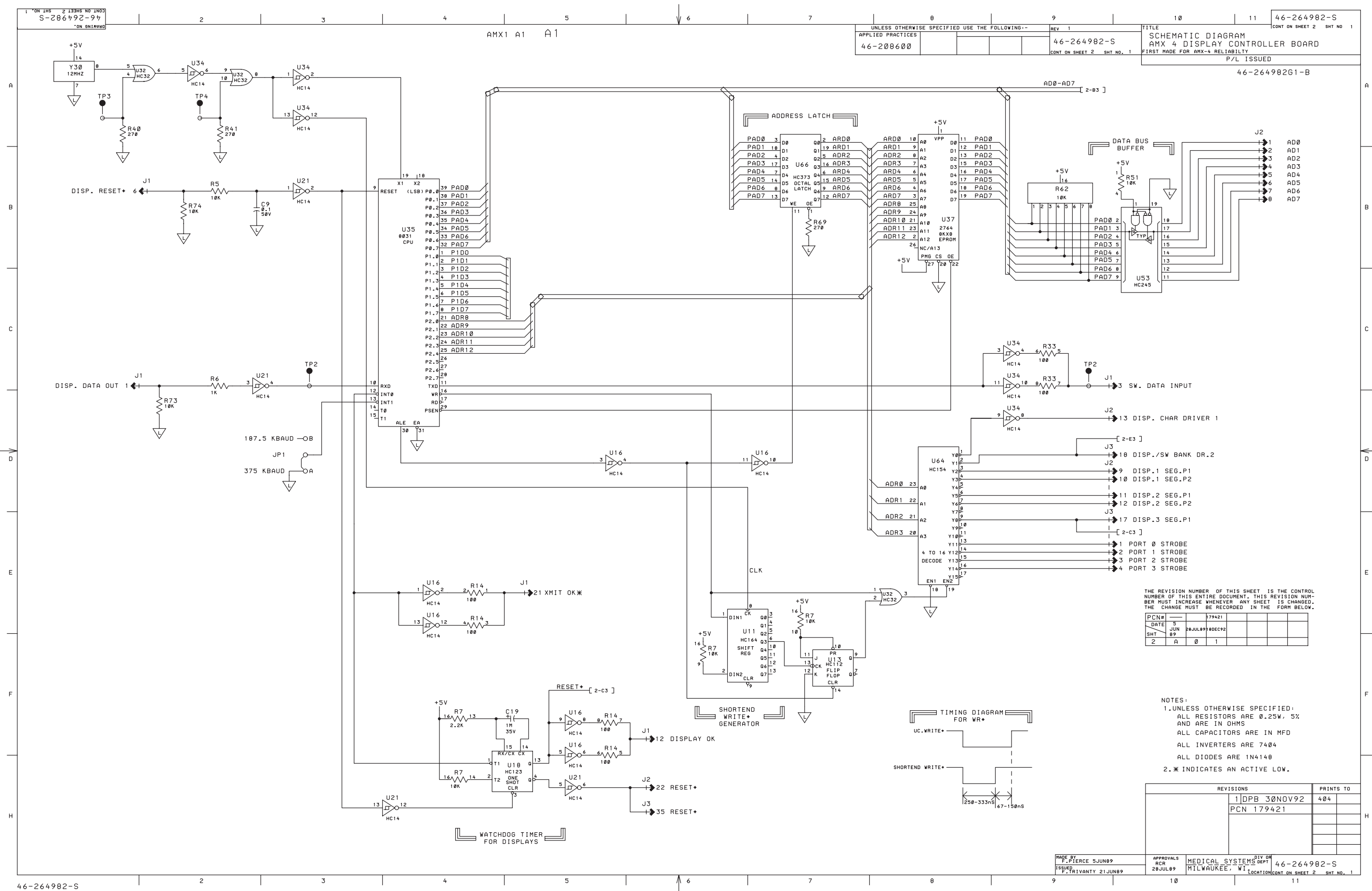


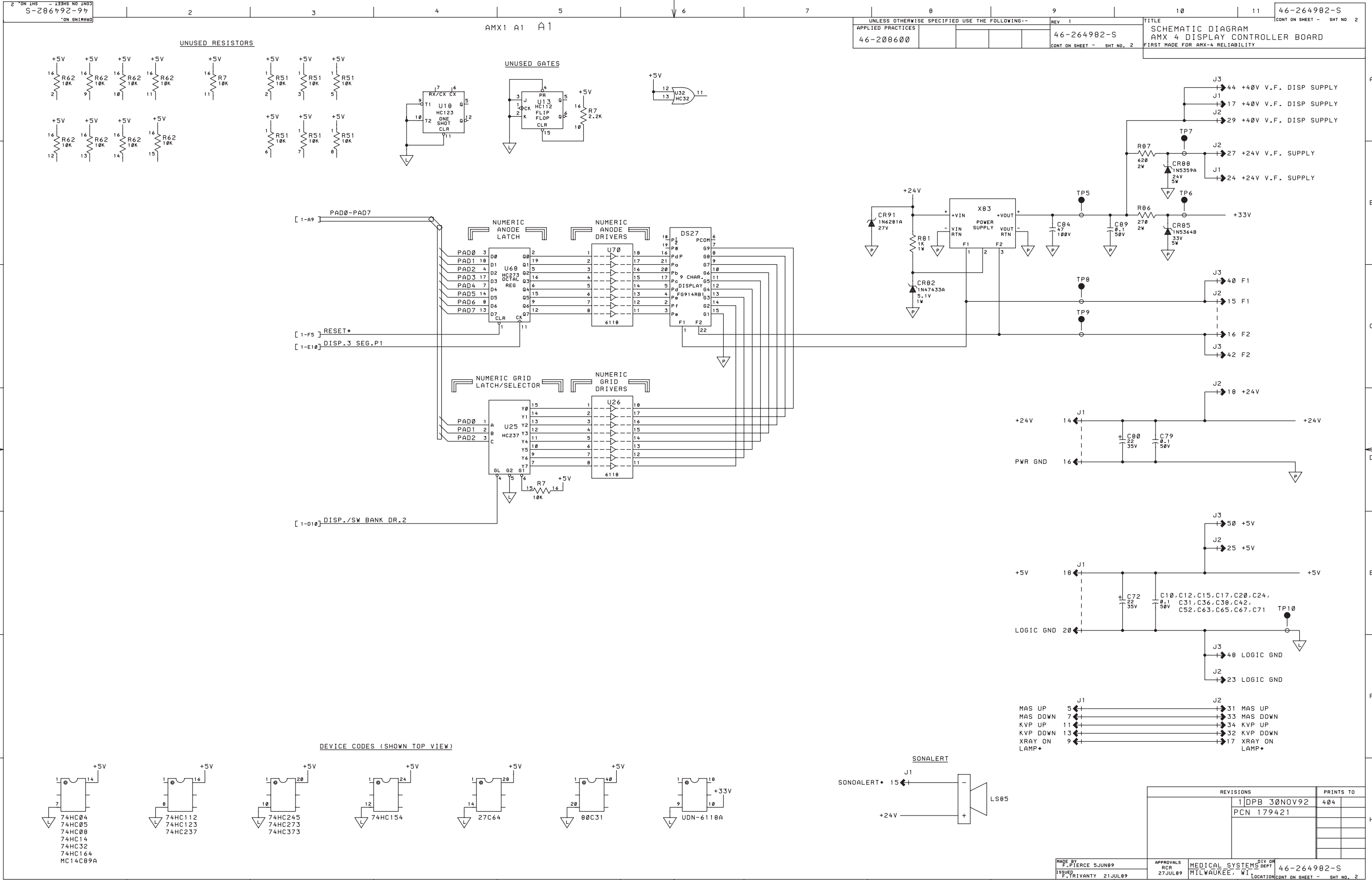
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SECTION 3
DISPLAY CONTROLLER
AMX1 A1 A1
46-264982G1

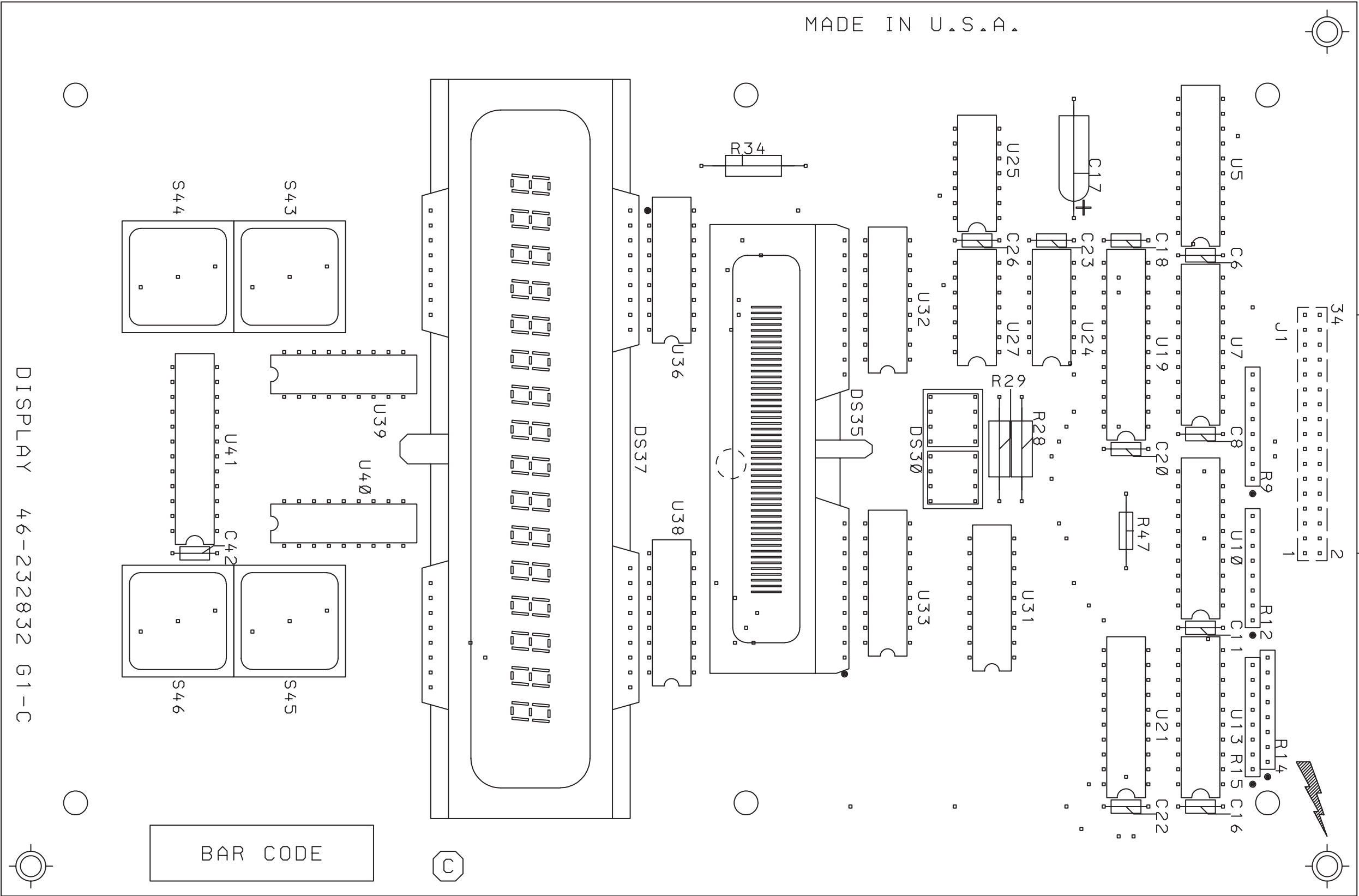


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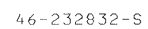




SECTION 4
DISPLAY
AMX1 A1 A2
46-232832G1

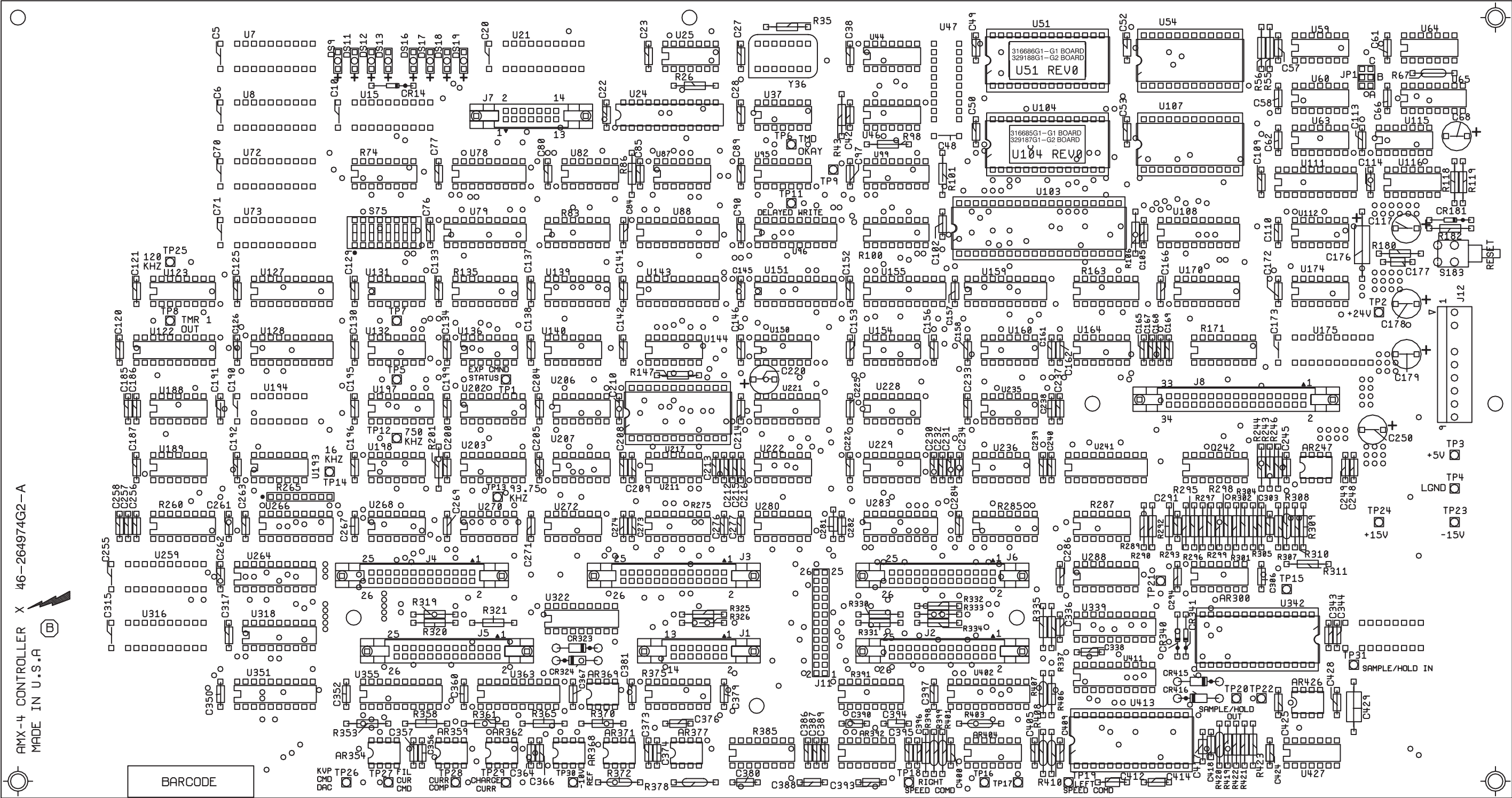


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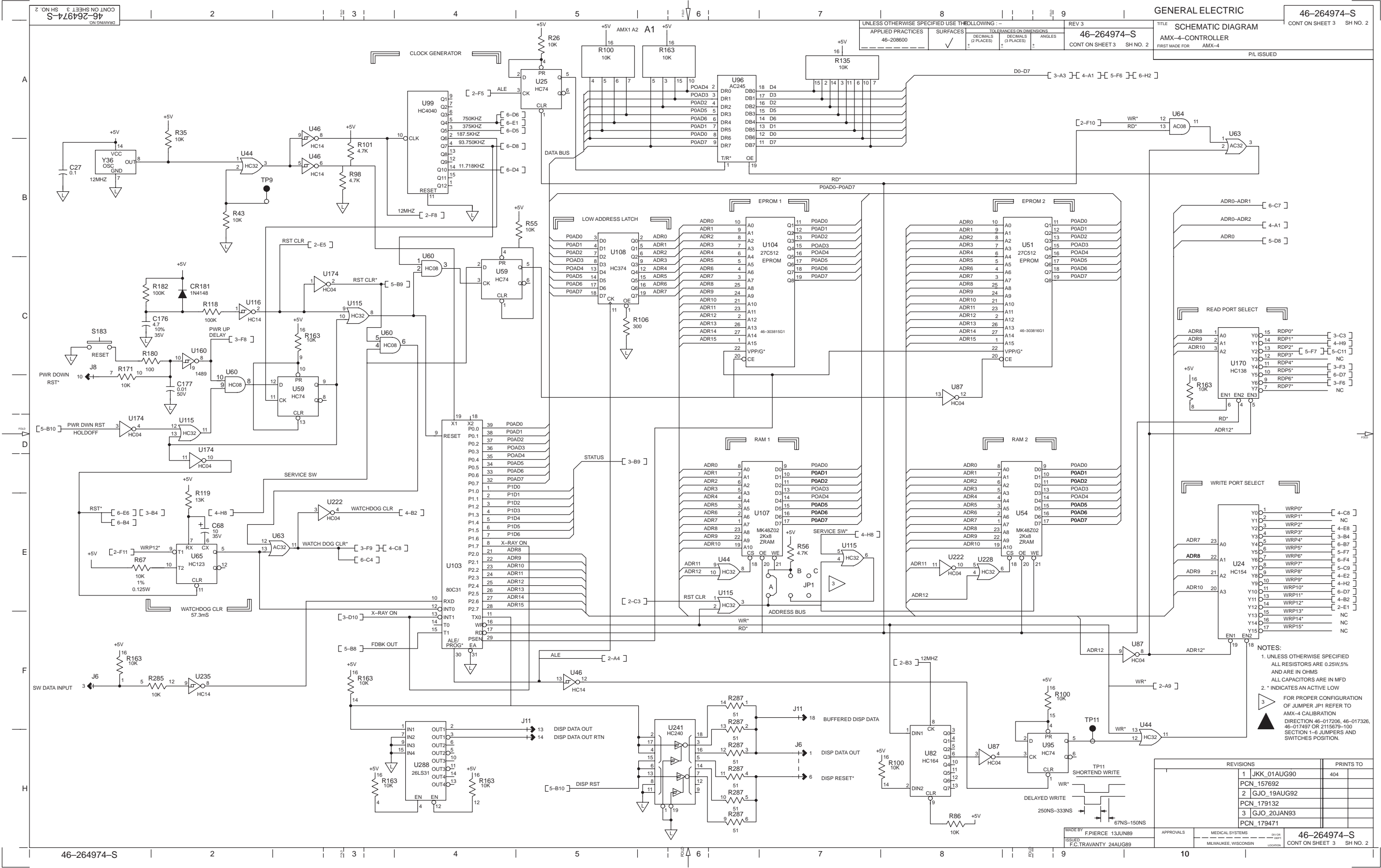
SECTION 5
CONTROLLER
AMX1 A2 A1
46-264974G2

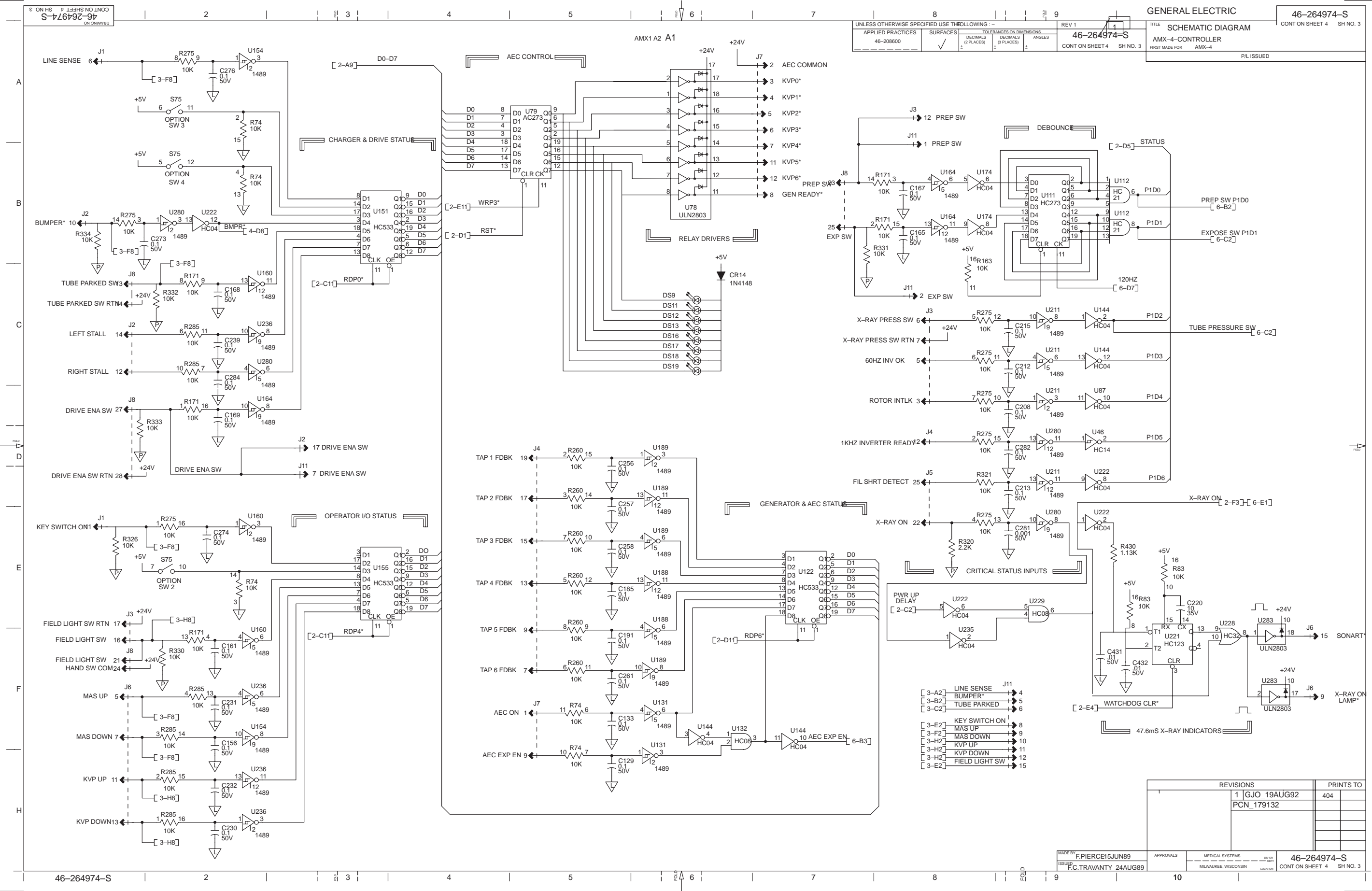


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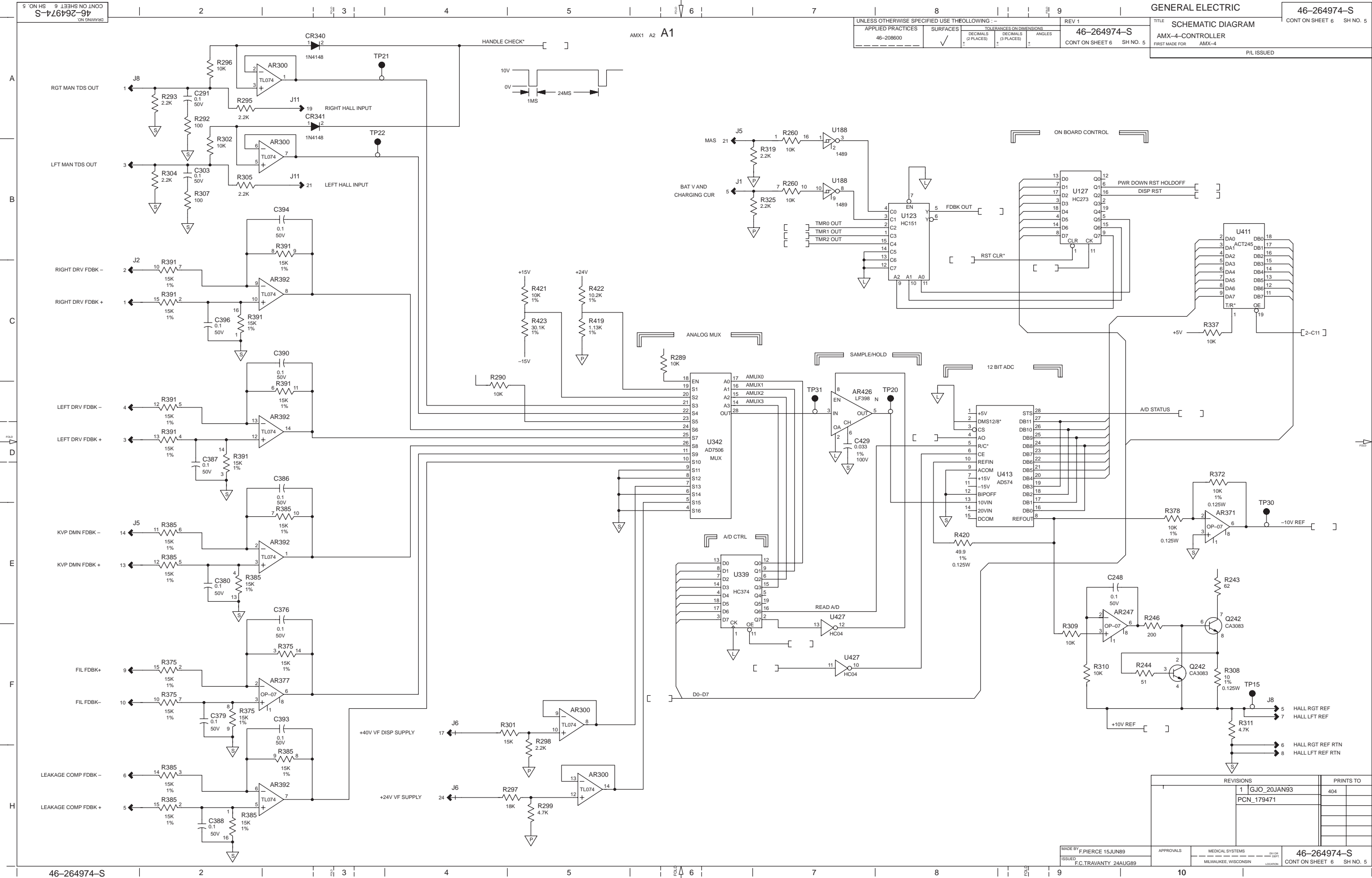


▲ Per PCN 180369









GENERAL ELECTRIC

46-264974-S

CONT ON SHEET 6 SH NO. 5

REV 1
46-264974-S
CONT ON SHEET 6 SH NO. 5

TITLE SCHEMATIC DIAGRAM
AMX-4-CONTROLLER
FIRST MADE FOR AMX-4
P/L ISSUED

| REVISIONS | | PRINTS TO | |
|-----------|---------------------------|-----------|--|
| 1 | GJO_20JAN93 PCN_179471 | 404 | |
| | | | |
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MADE BY F.PIERCE 15JUN89
ISSUED F.C.TRAVANTY 24AUG89

APPROVALS
MEDICAL SYSTEMS
MILWAUKEE, WISCONSIN

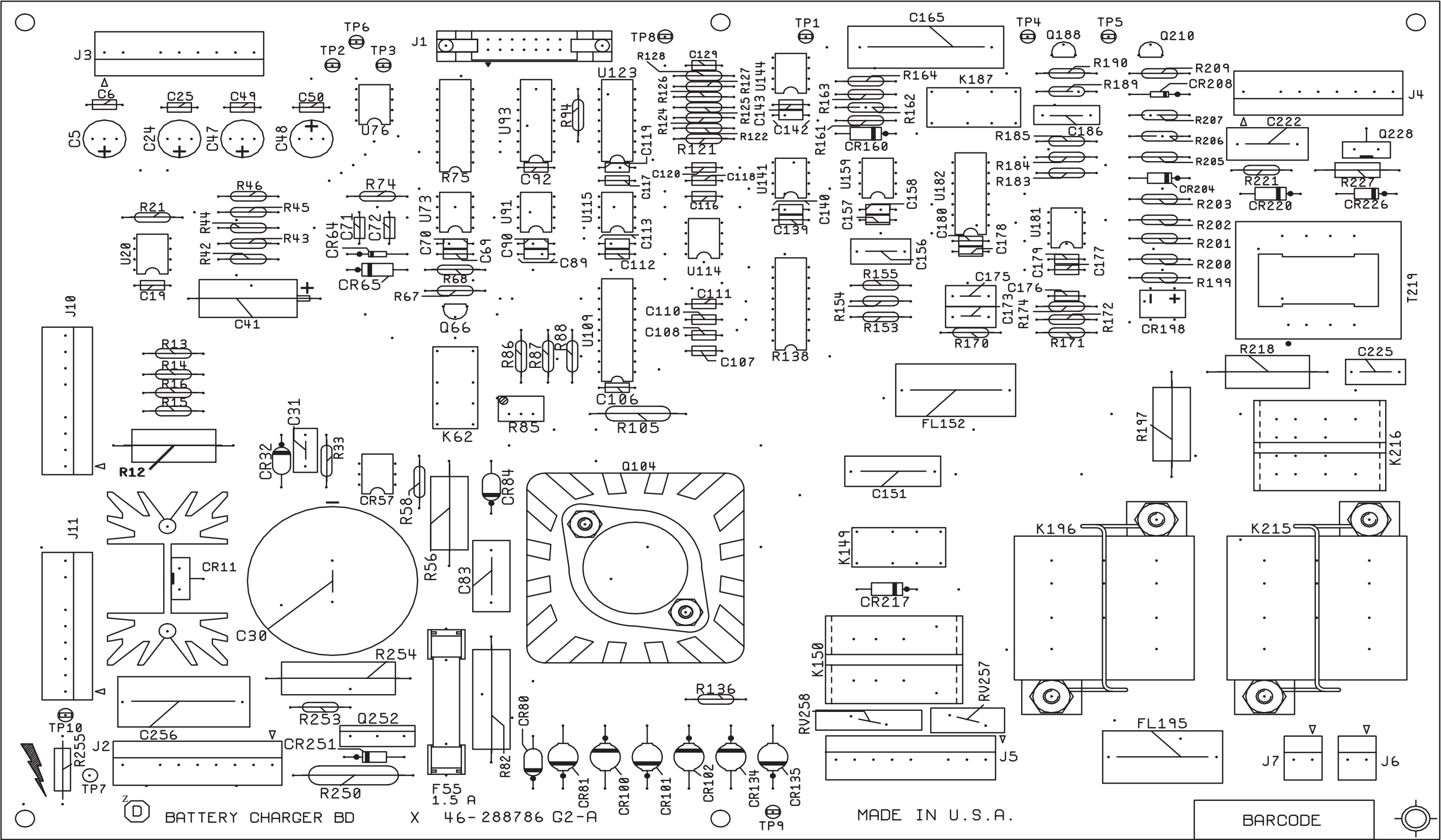
46-264974-S
CONT ON SHEET 6 SH NO. 5





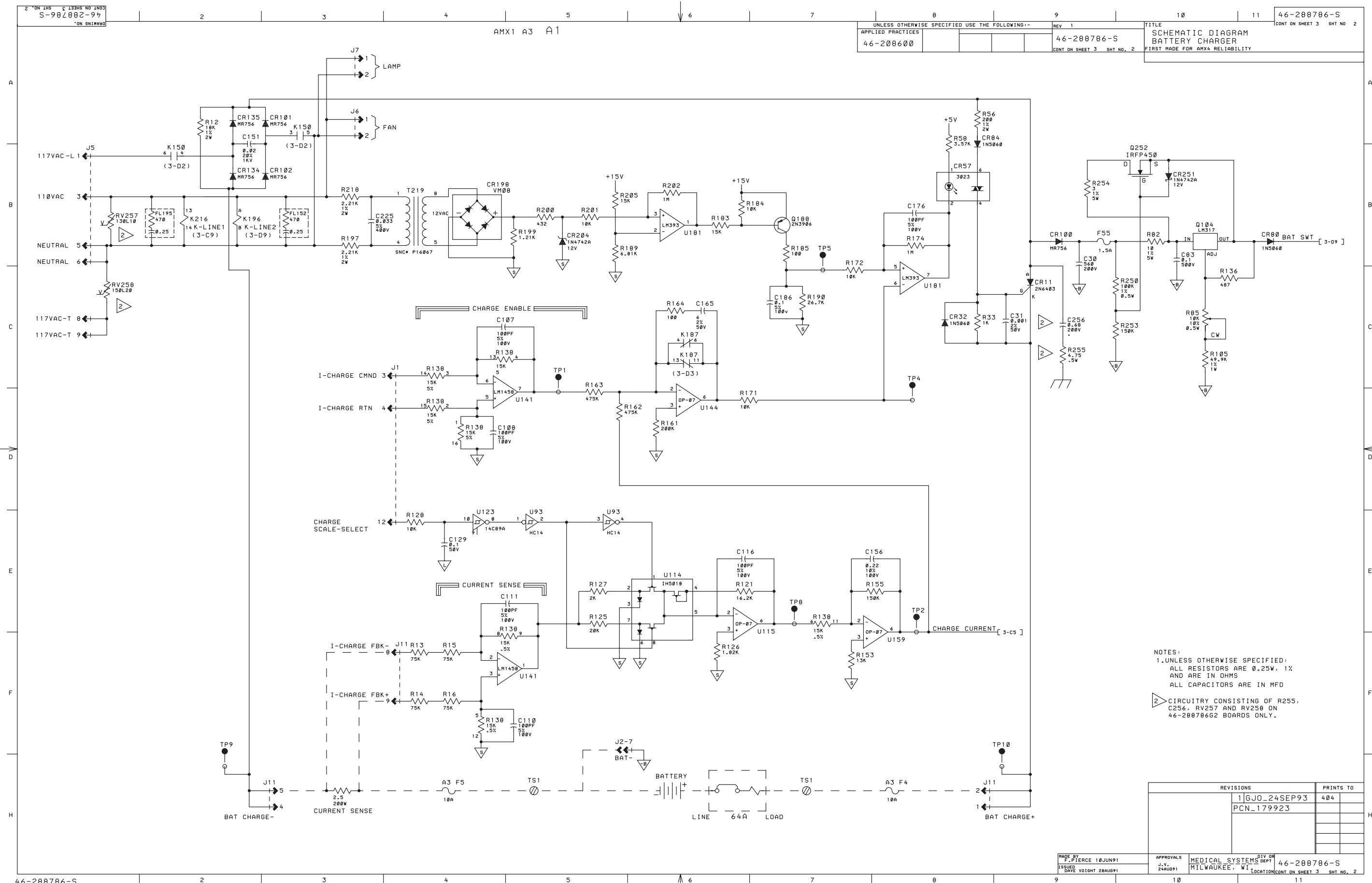
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SECTION 6
BATTERY CHARGER
AMX1 A3 A1
46-288786G2



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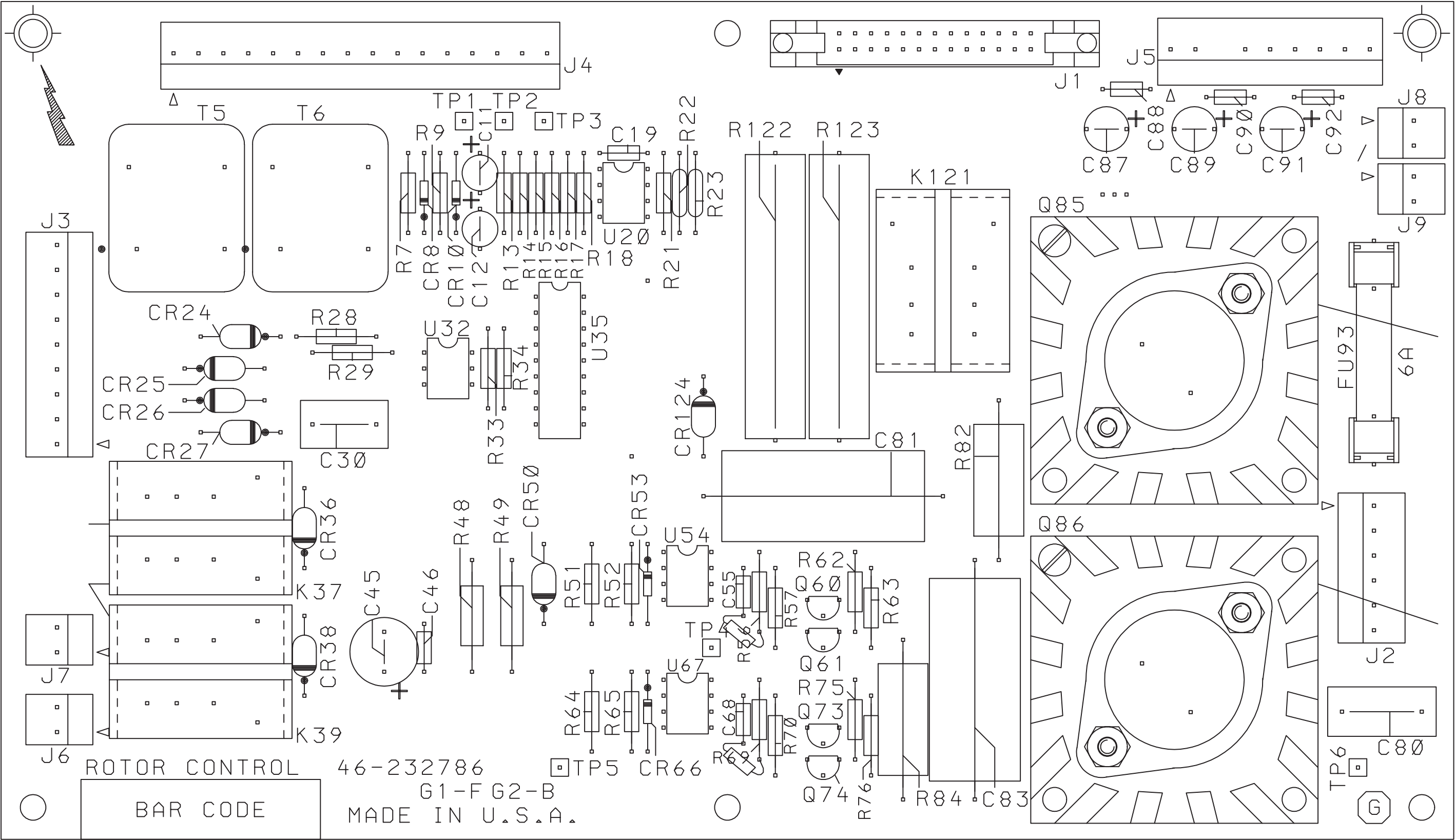




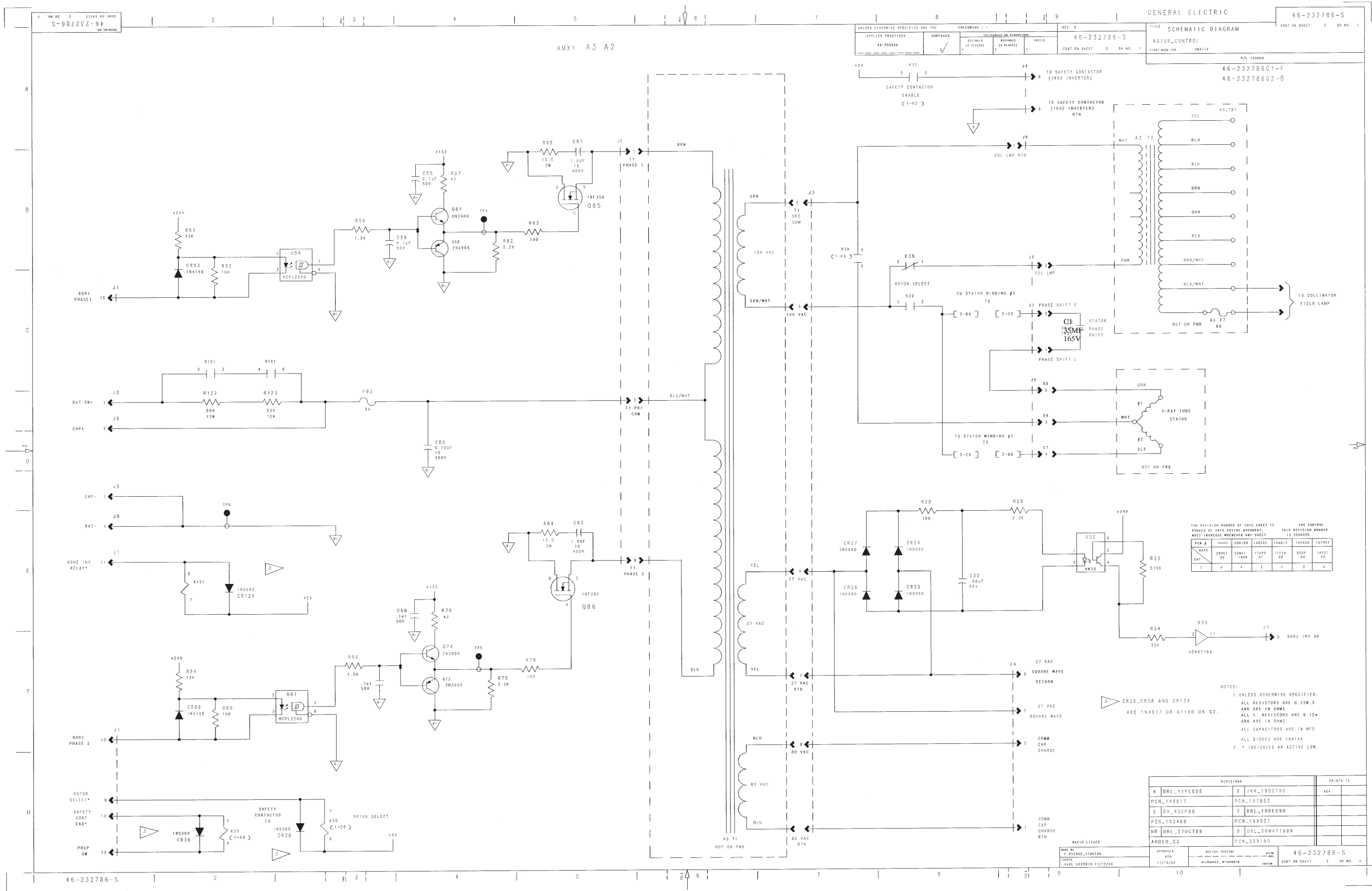


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SECTION 7
ROTOR CONTROLLER
AMX1 A3 A2
46-232786G2



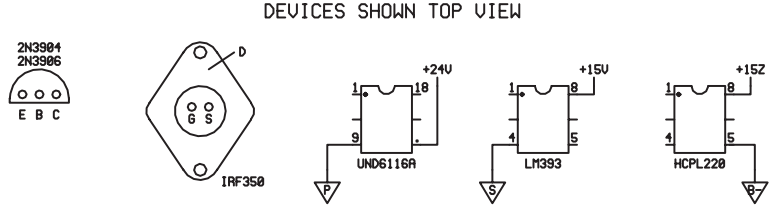
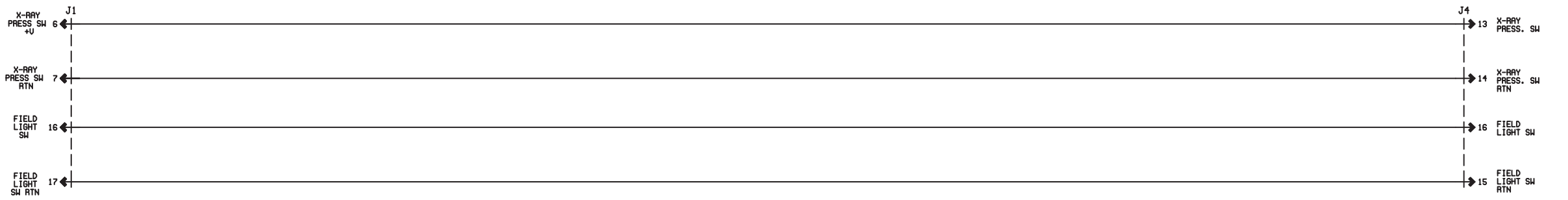
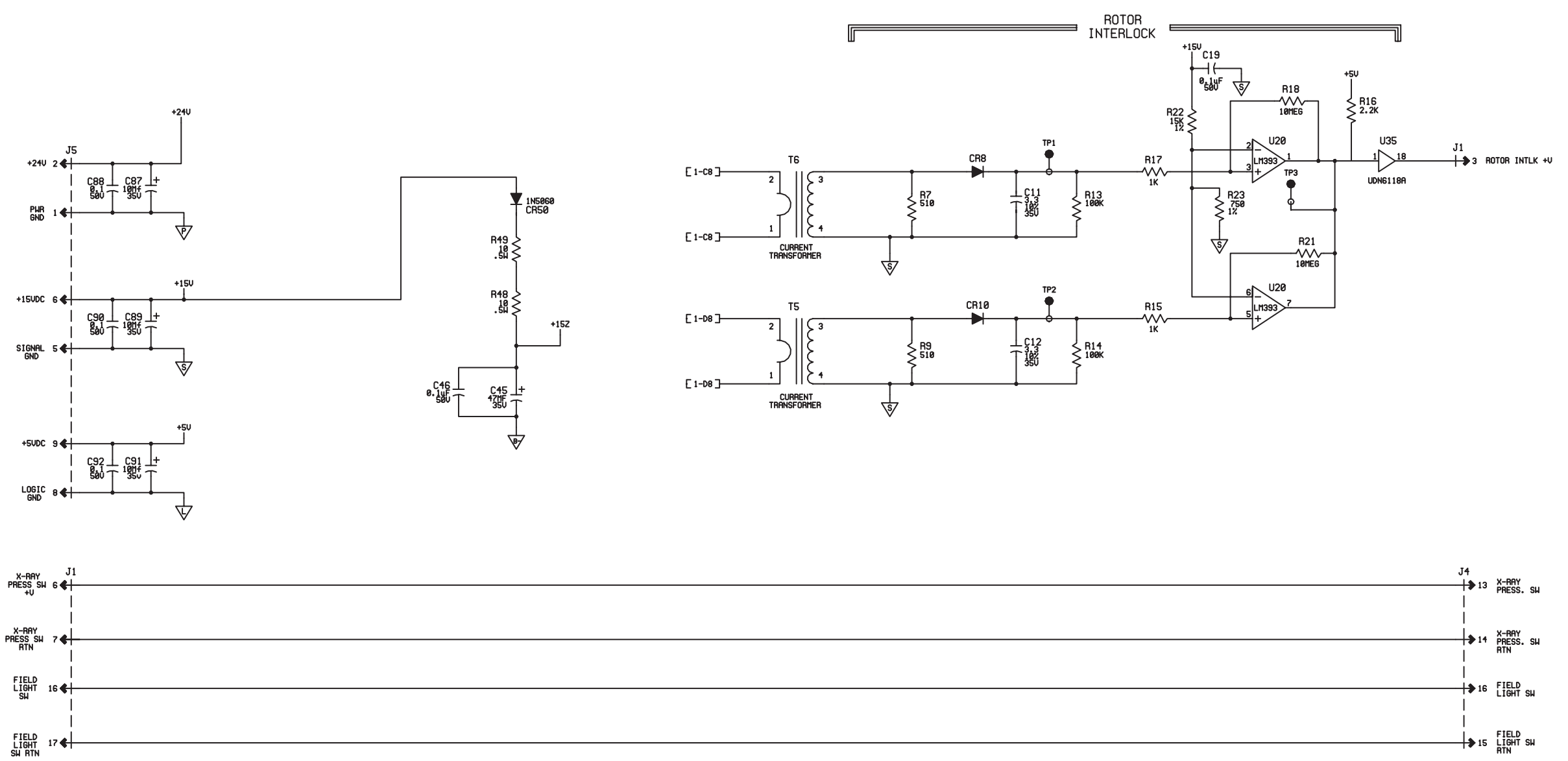
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AMX1 A3 A2

| UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING : - | | | |
|--|----------|------------------------------|--------------------------|
| APPLIED PRACTICES | SURFACES | TOLERANCES ON DIMENSIONS | ANGLES |
| 46-288680 | ✓ | DIMENSIONS (2 PLACES) ± .005 | ANGLES (3 PLACES) ± .005 |

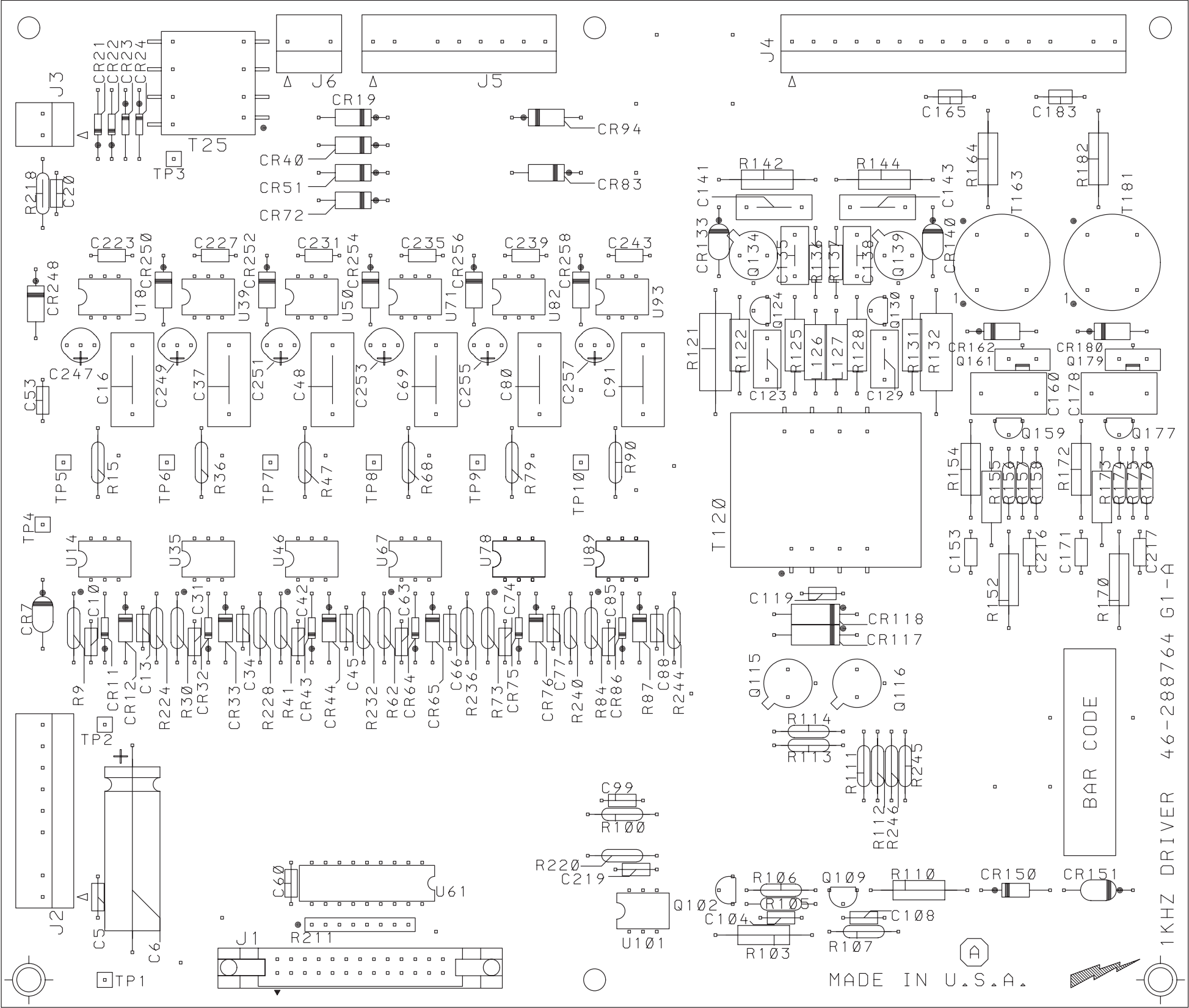
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| GENERAL ELECTRIC | | 46-232786-S |
| TITLE SCHEMATIC DIAGRAM | | CONT ON SHEET - SH NO. 2 |
| FIRST MADE FOR AMX-4U | | P/L ISSUED |



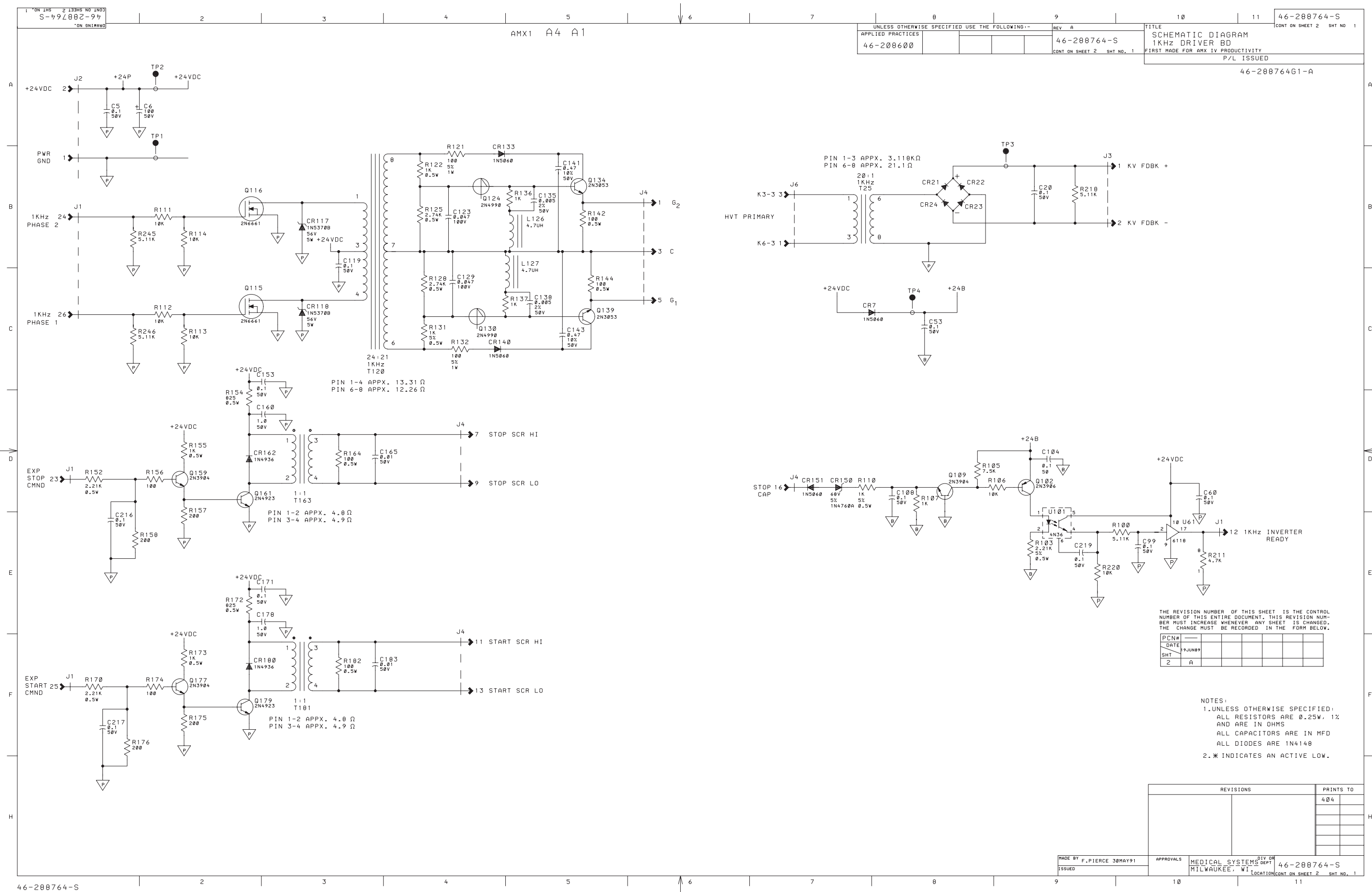
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|---------------|---------------|-----------|--|
| 4 JKK_19OCT90 | 1 JKK 27FEB87 | 404 | |
| PCN_157853 | EPC 148156 | | |
| | 2 FEP_17APR87 | | |
| | PCN_148362 | | |
| | 3 DAL_11FEB88 | | |
| | PCN_148817 | | |

| | | | |
|--------------|-----------|----------------------|--------------------------|
| DAVID LIEDER | APPROVALS | REVISIONS | 46-232786-S |
| DATE BY | RCR | MILWAUKEE, WISCONSIN | CONT ON SHEET - SH NO. 2 |
| 11/19/86 | | | |

SECTION 8
1KHZ INVERTER
AMX1 A4 A1
46-288764G1

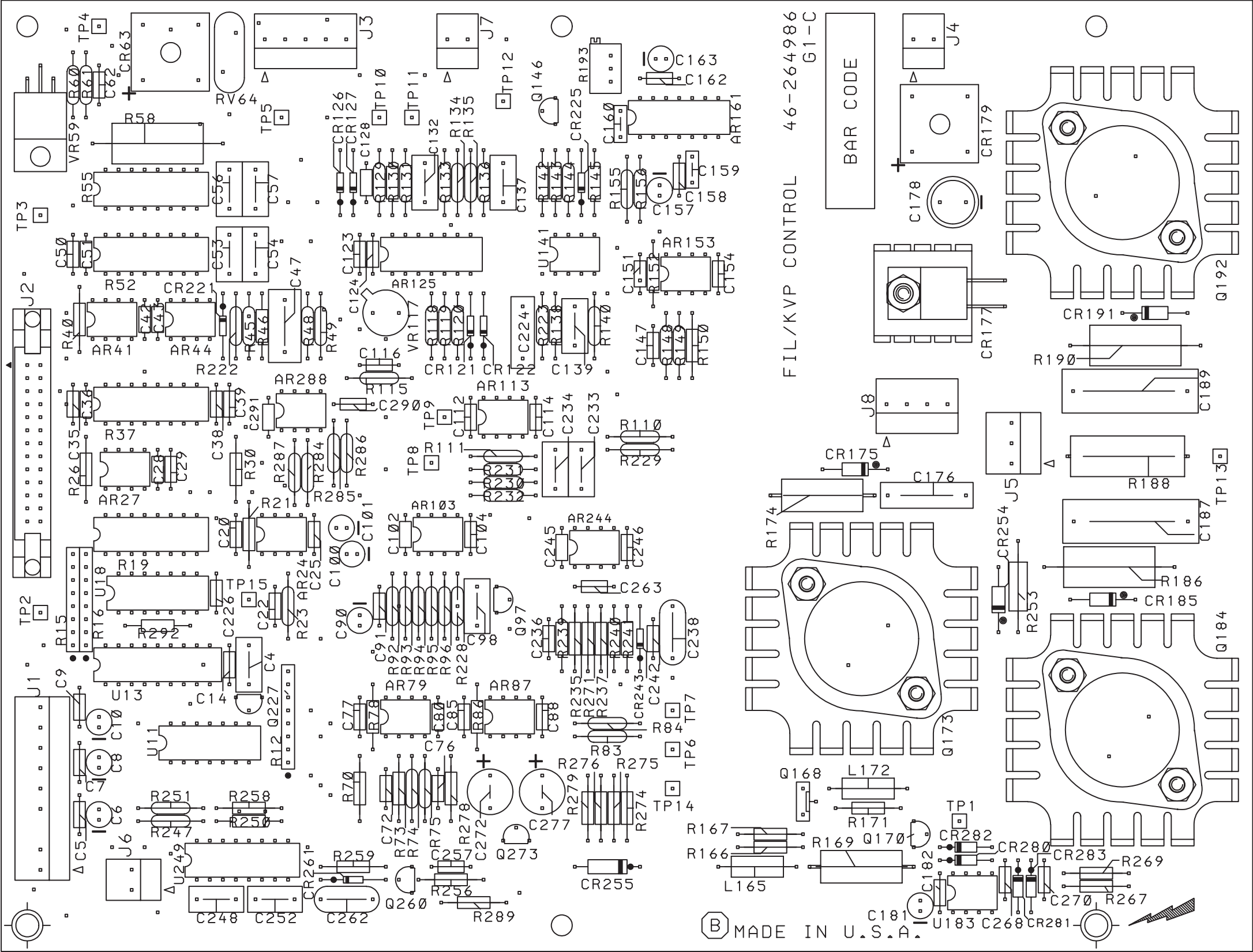


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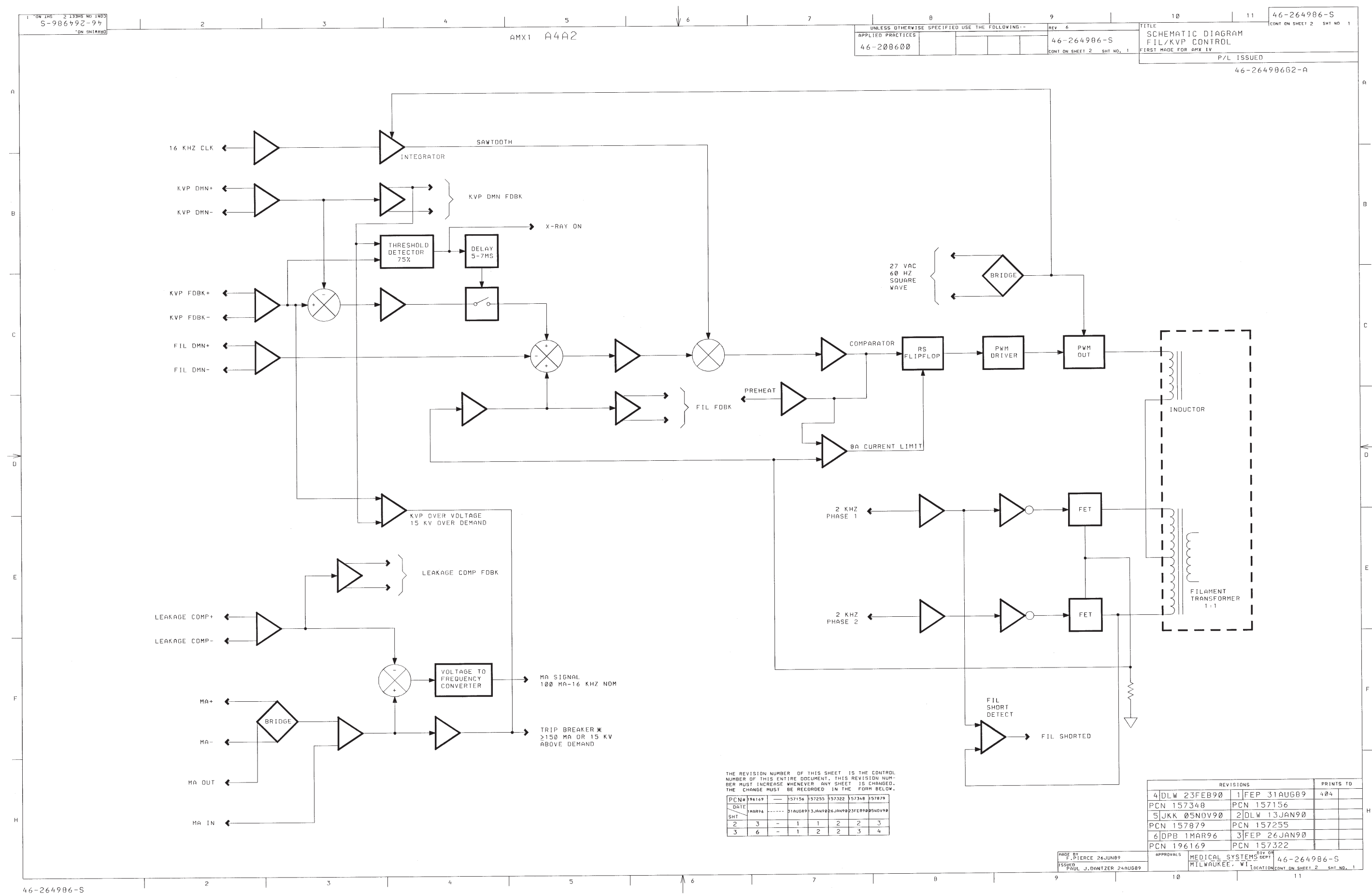


SECTION 9
KVP/FIL CONTROL
AMX1 A4 A2
46-264986G1



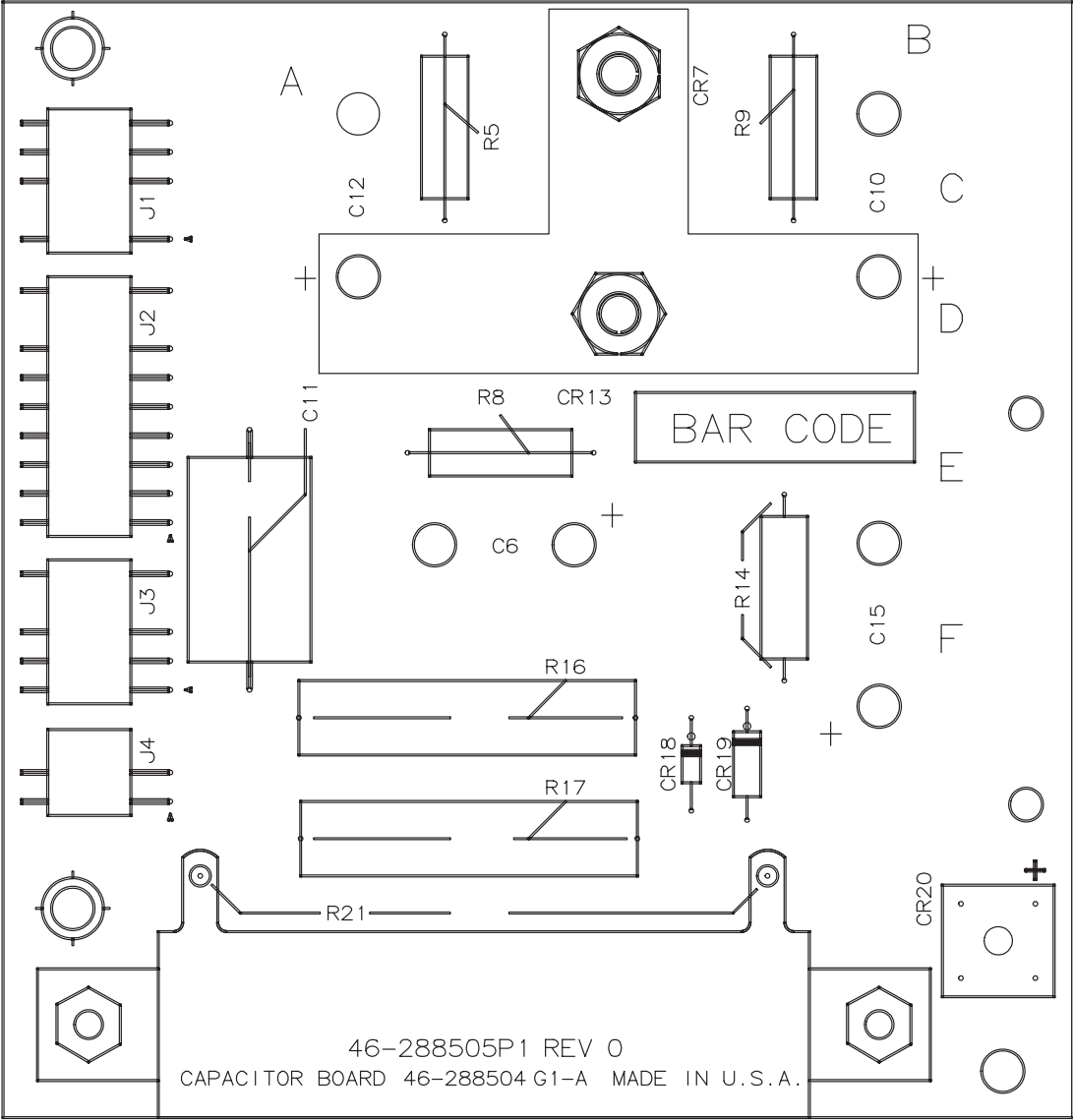
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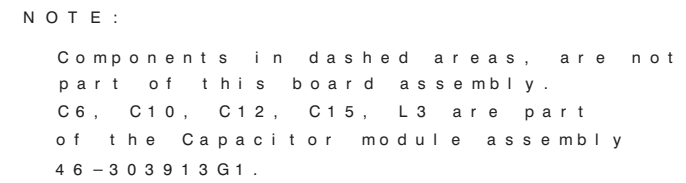


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SECTION 10
CAPACITOR BOARD
AMX1 A4 A3
46-288504G1

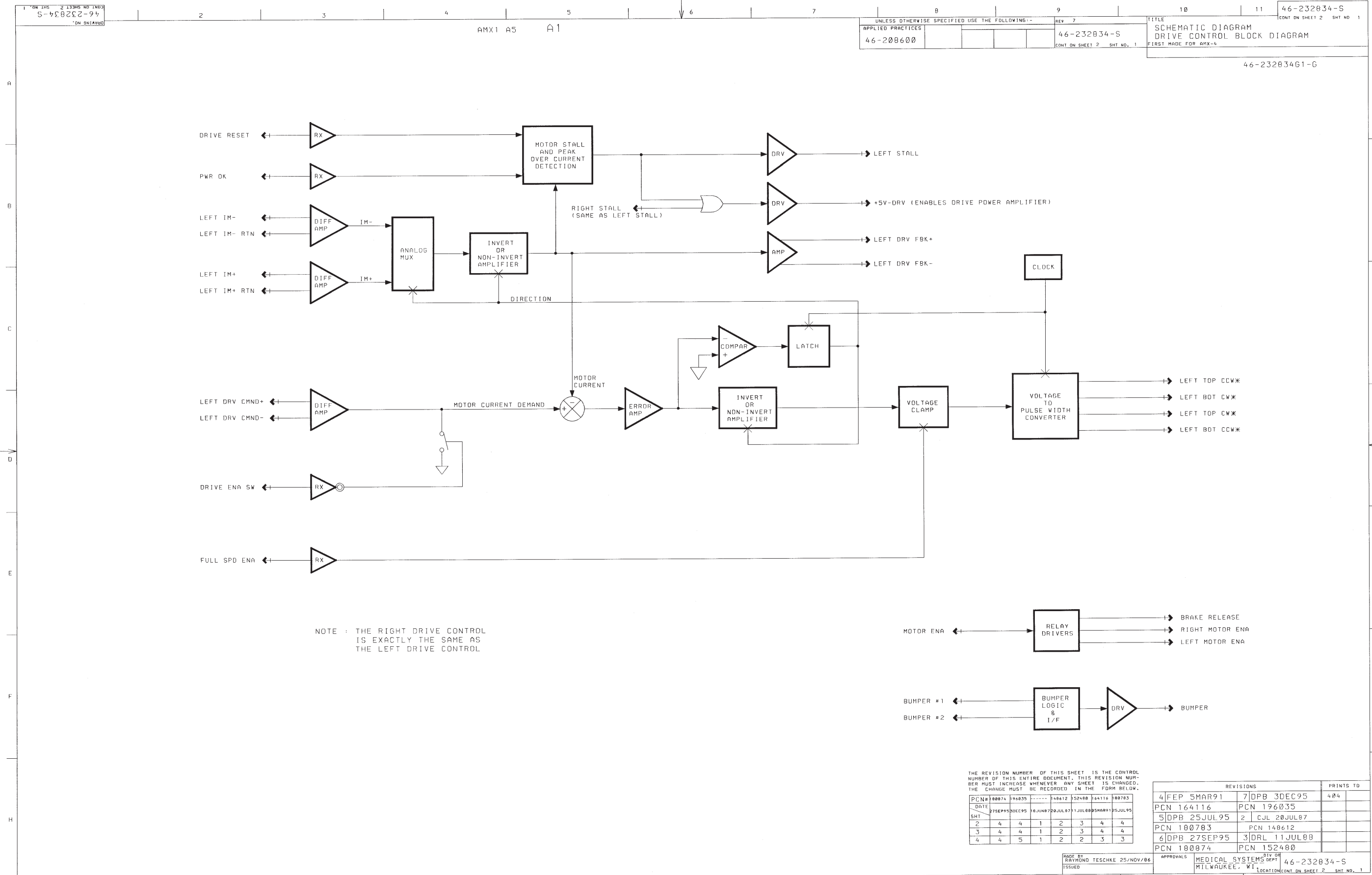


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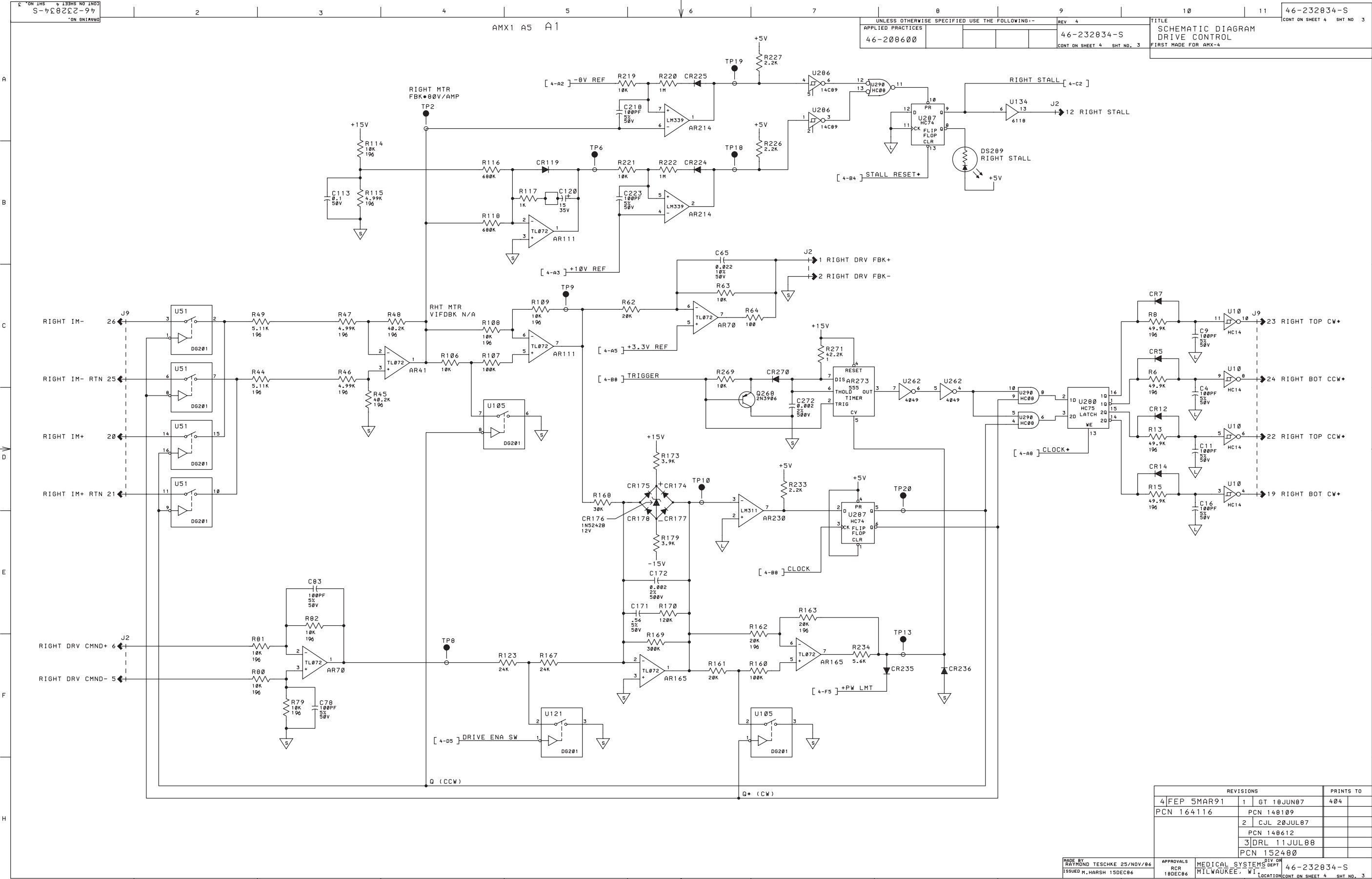
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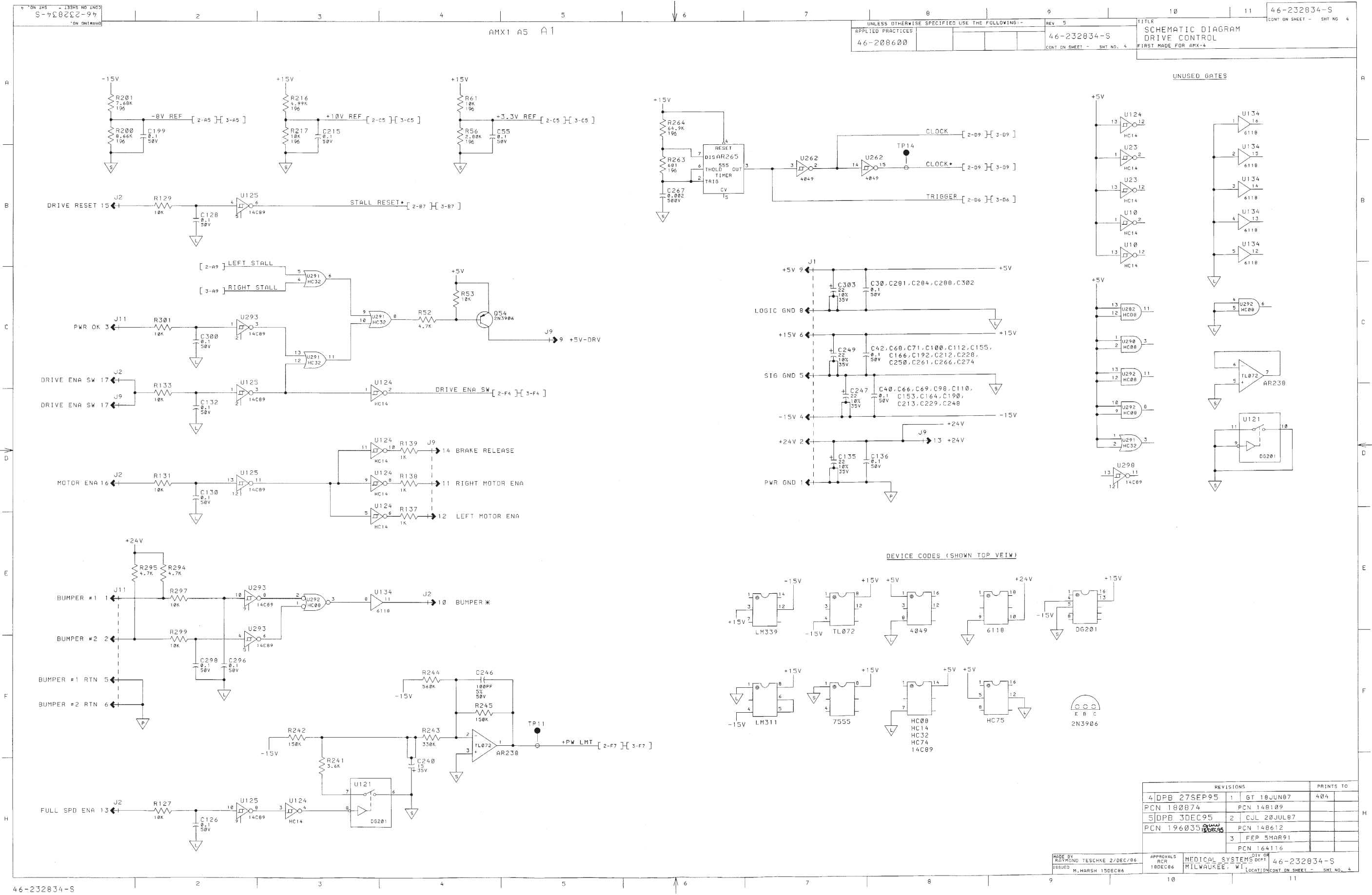
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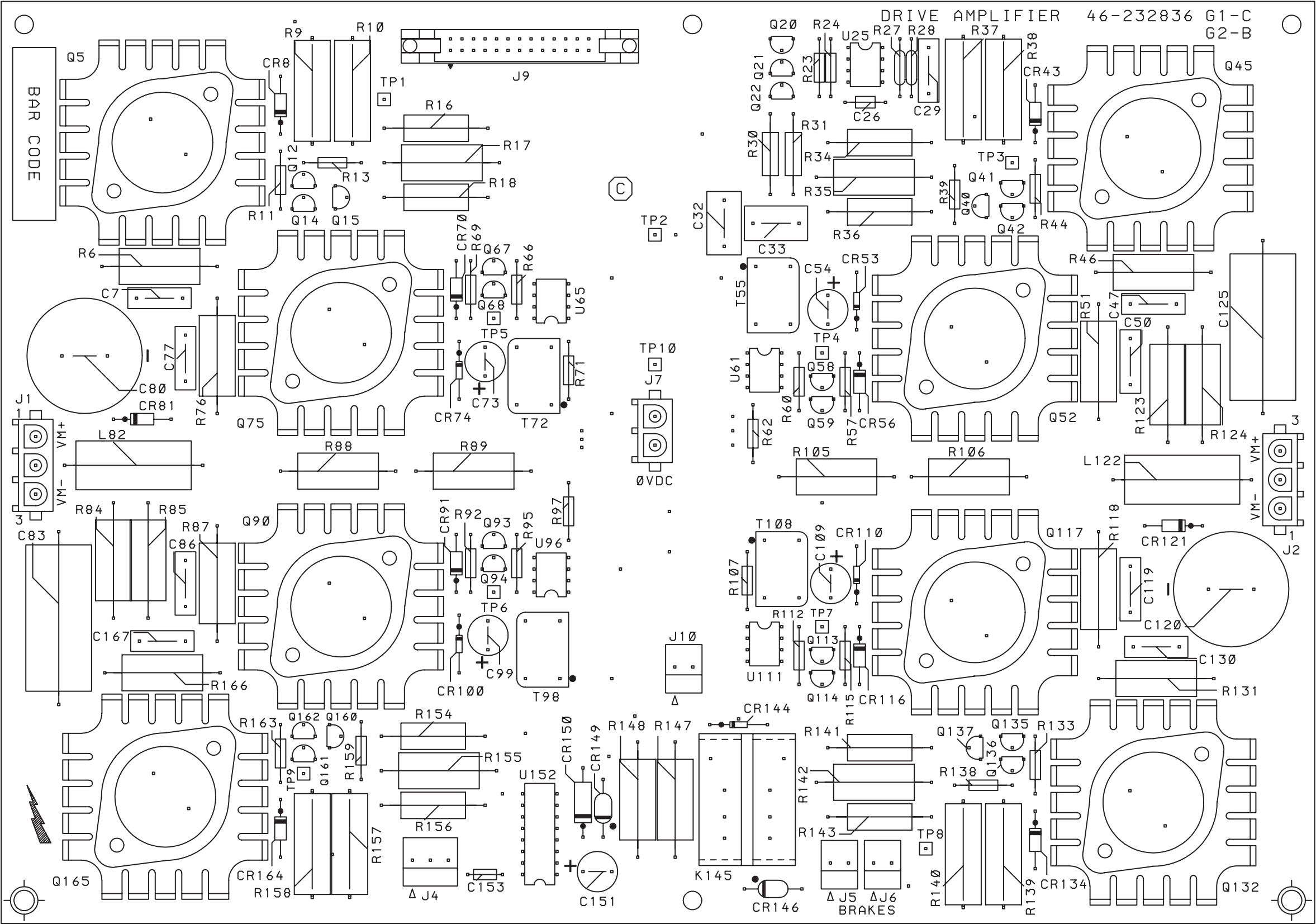








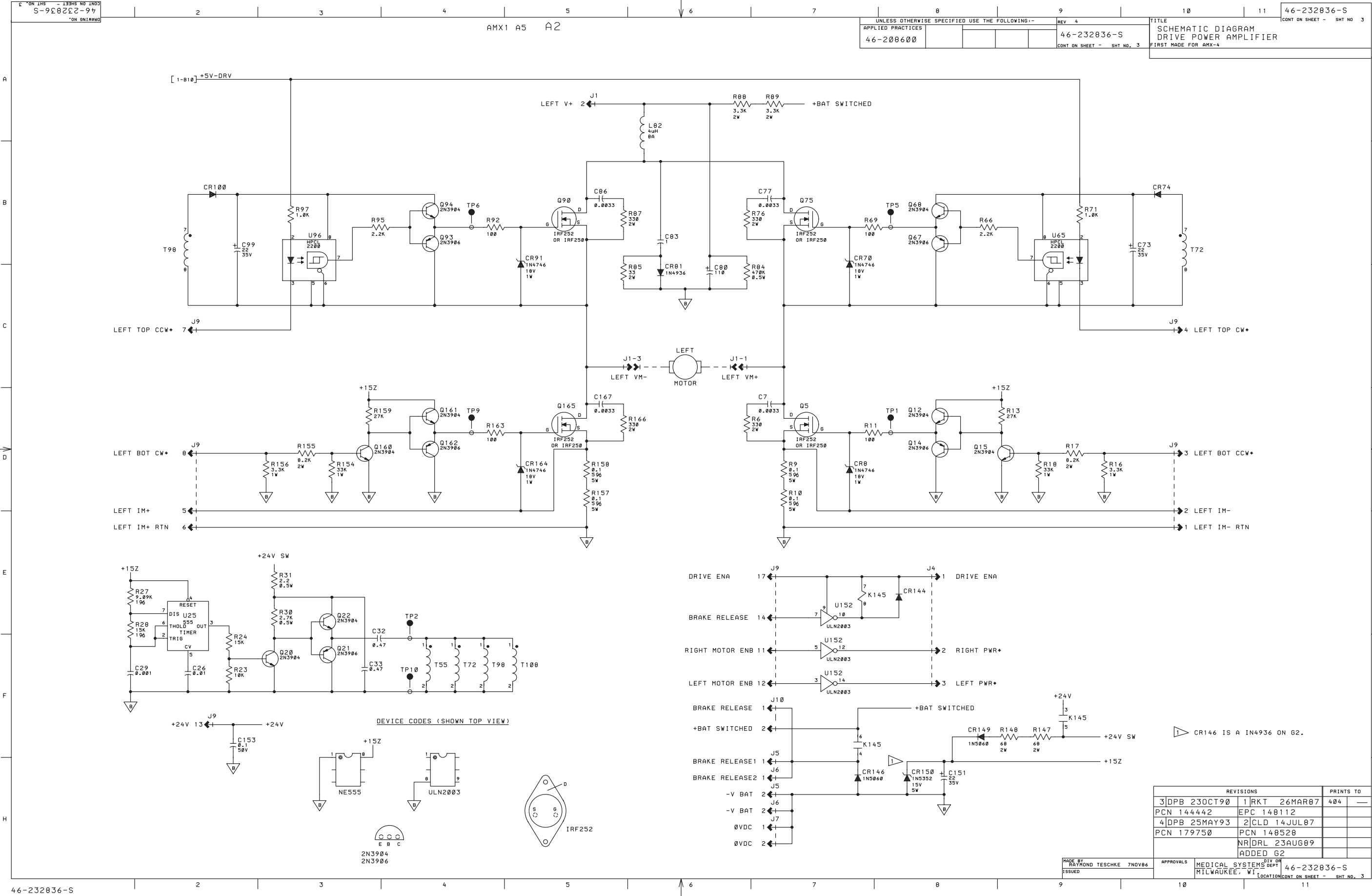
SECTION 12
DRIVE POWER AMPLIFIER
AMX1 A5 A2
46-232836G2



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SECTION 13
HIGH VOLTAGE TRANSFORMER
AMX1 A6 A1
46-270954G1

NO BOARD DRAWING

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46-270954-S
DRAWING NO.

| | | | | |
|--|--|--|--|--|
| UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING:- | | | | |
| APPLIED PRACTICES | | | | |
| 46-208600 | | | | |

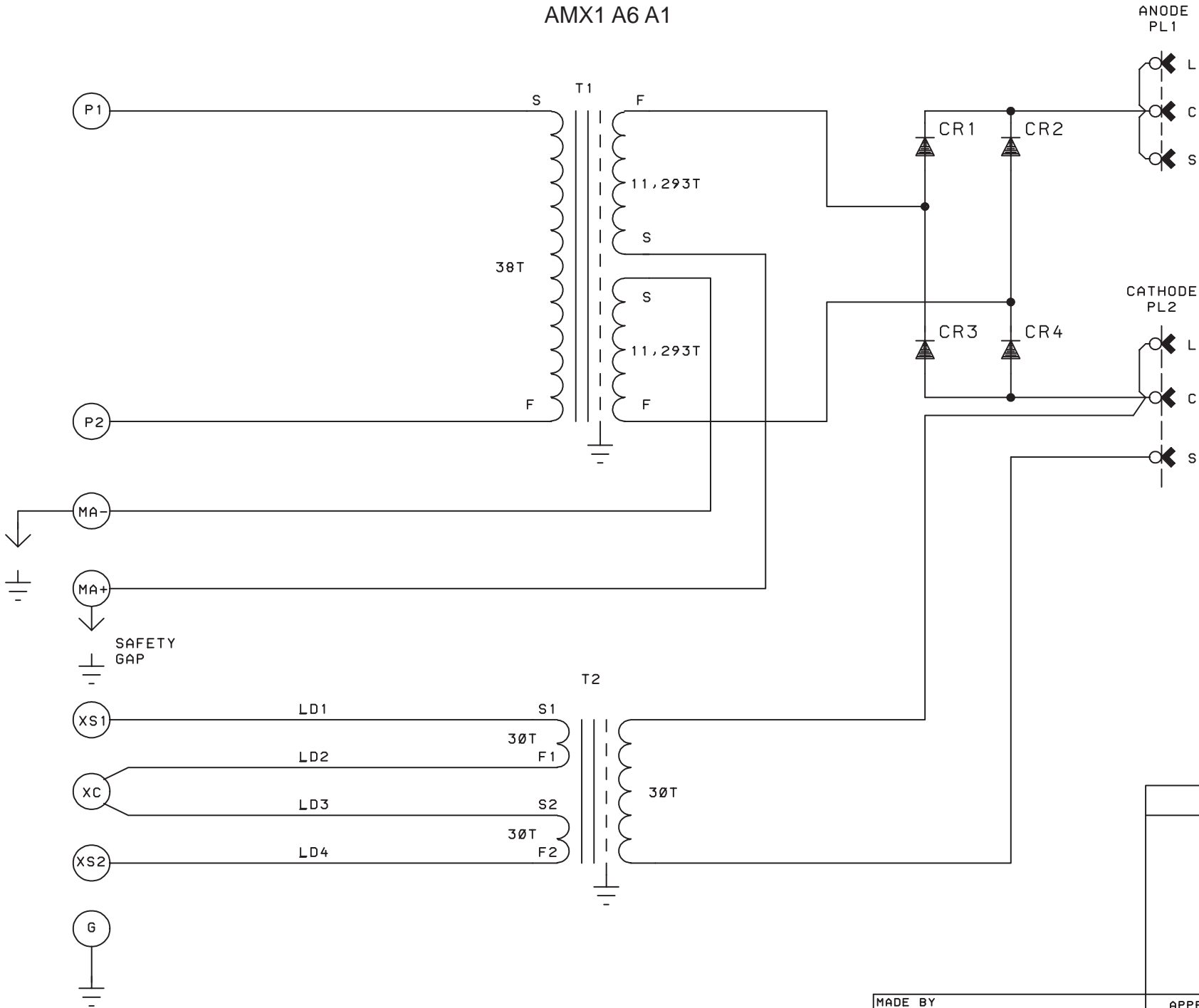
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|---------------------------|
| REV 0 |
| 46-270954-S |
| CONT ON SHEET - SHT NO. 1 |

| |
|---|
| TITLE |
| SCHEMATIC DIAGRAM HIGH VOLTAGE TRANSFORMER ASM |
| FIRST MADE FOR AMX-4 |

46-270954-S

CONT ON SHEET - SHT NO 1

AMX1 A6 A1



- NOTES
1. T1-H.T.XFMR NS/NP - 594.37.
 2. T2-FIL XFMR NS/NP - 1.0.
 3. CR1,CR2,CR3,CR4 - 55R125 RECT ASM.
 4. PL1,PL2 - H.V. CABLE RECEPTACLE.

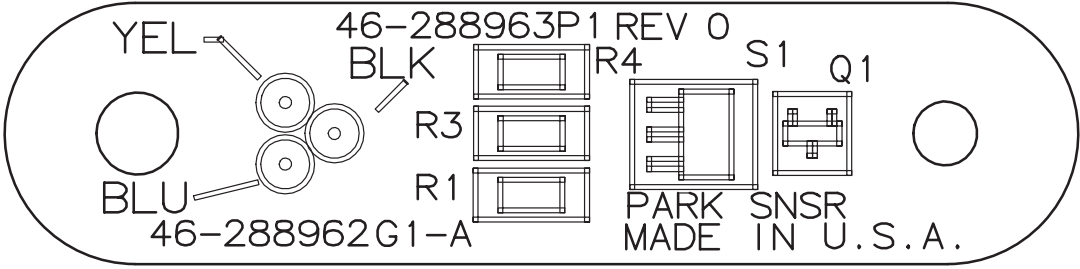
| REVISIONS | | PRINTS TO | |
|-----------|--|-----------|--|
| | | 404 | |
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|---------------------------------|-----------|---|-------------|
| MADE BY OU 29DEC86 ISSUED | APPROVALS | MEDICAL SYSTEMS DEPT MILWAUKEE, WI. LOCATION | 46-270954-S |
| CONT ON SHEET - SHT NO. 1 | | | |

46-270954-S¹

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SECTION 14
HALL EFFECT TUBE PARKED SENSOR
AMX1 A2 S1
46-288962G1

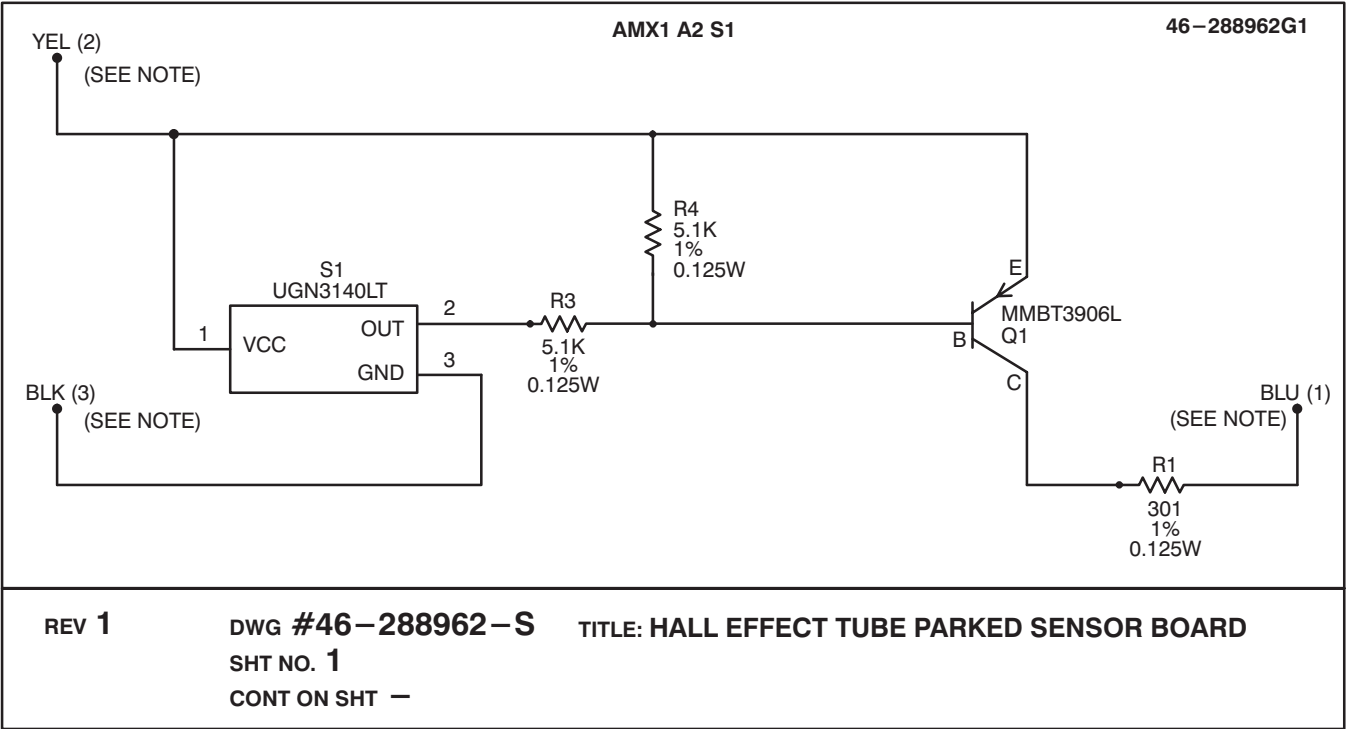


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HALL EFFECT TUBE PARKED SENSOR BOARD

AMX1 A2 S1

46-288962-S



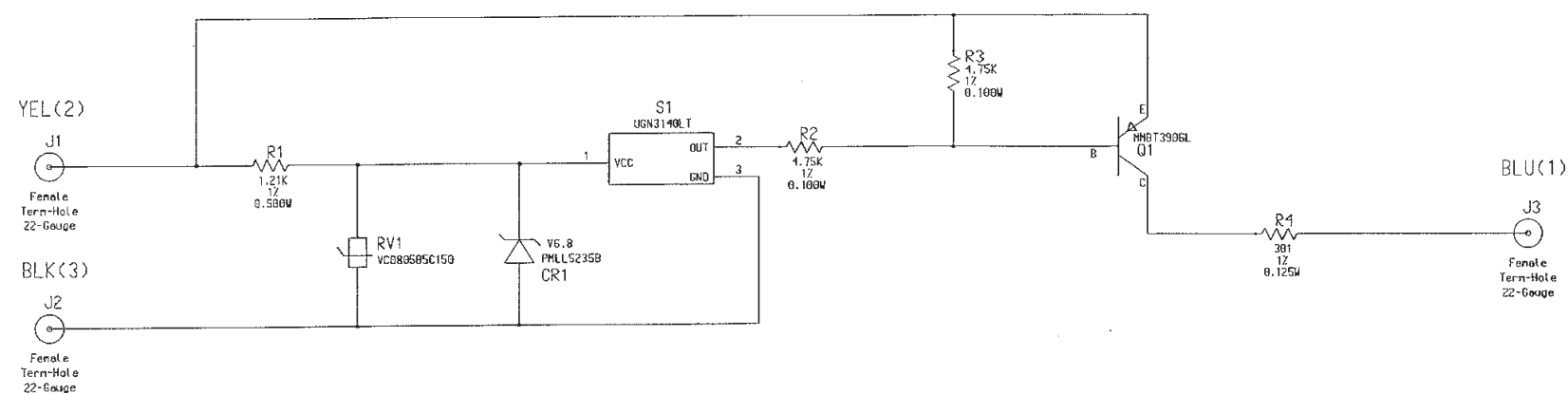
- Note:
- Refer to the AMX-4 Overall Wiring Schematic 2115090SCH (Section 2) for the following:
- Blue lead (1) connects to AMX1 A2 TS2-1 (Sheet 8, Zone F6)
 - Yellow lead (2) connects to AMX1 A2 TS2-2 (Sheet 8, Zone F6)
 - Black lead (3) connects to AMX1 A2 TS2-3 (Sheet 2, Zone D7)

AMX1 A2 S1
2173060SCH

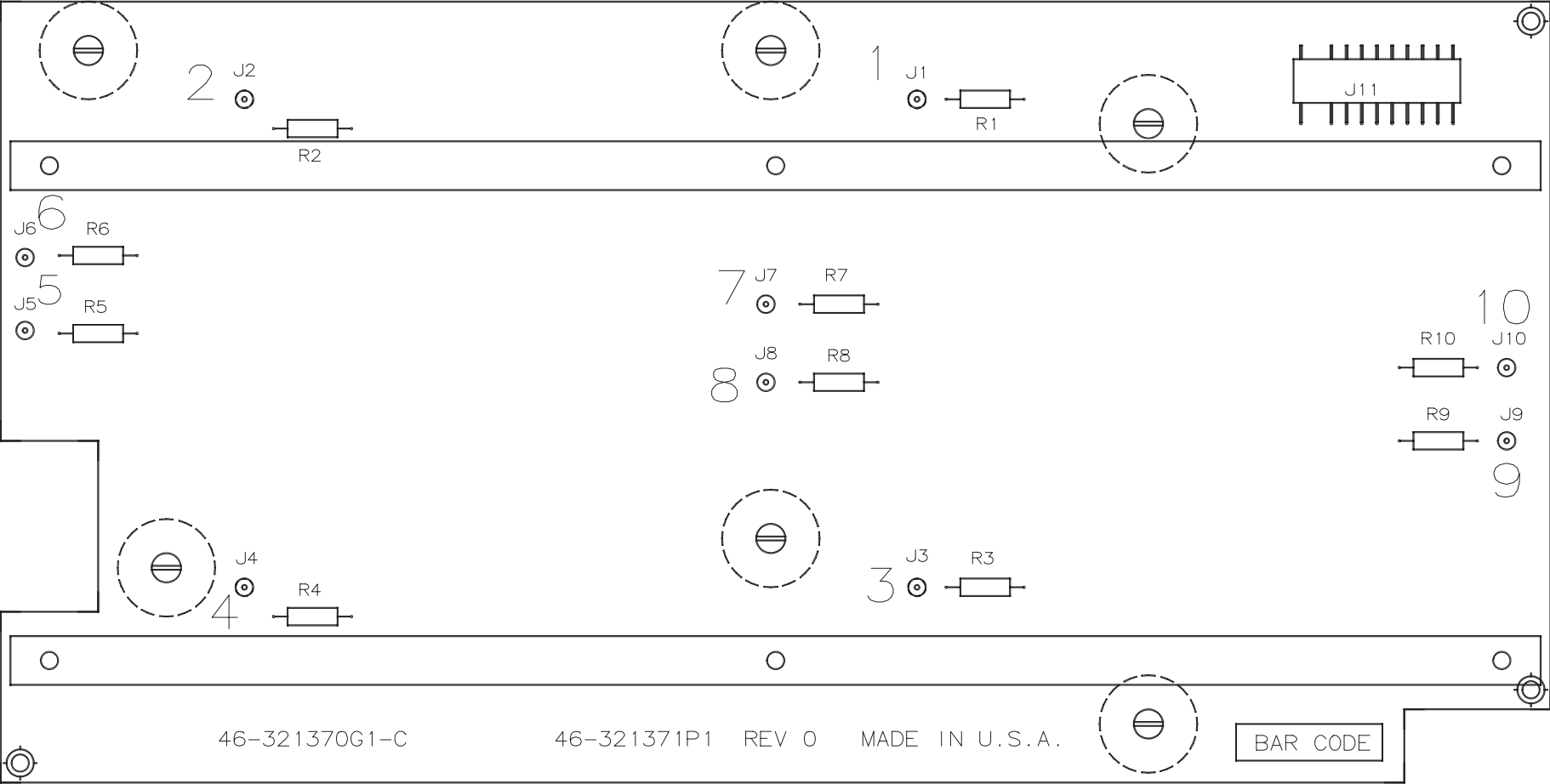
| REVISION | PCN NUMBER | DATE | SIGN OFF |
|----------|------------|-----------|-------------|
| 0 | ----- | 18-OCT-96 | JWW |
| 1 | 201074 | 21-Nov-96 | |
| 2 | 209893 | 24-Aug-00 | JWW |

NOTES:

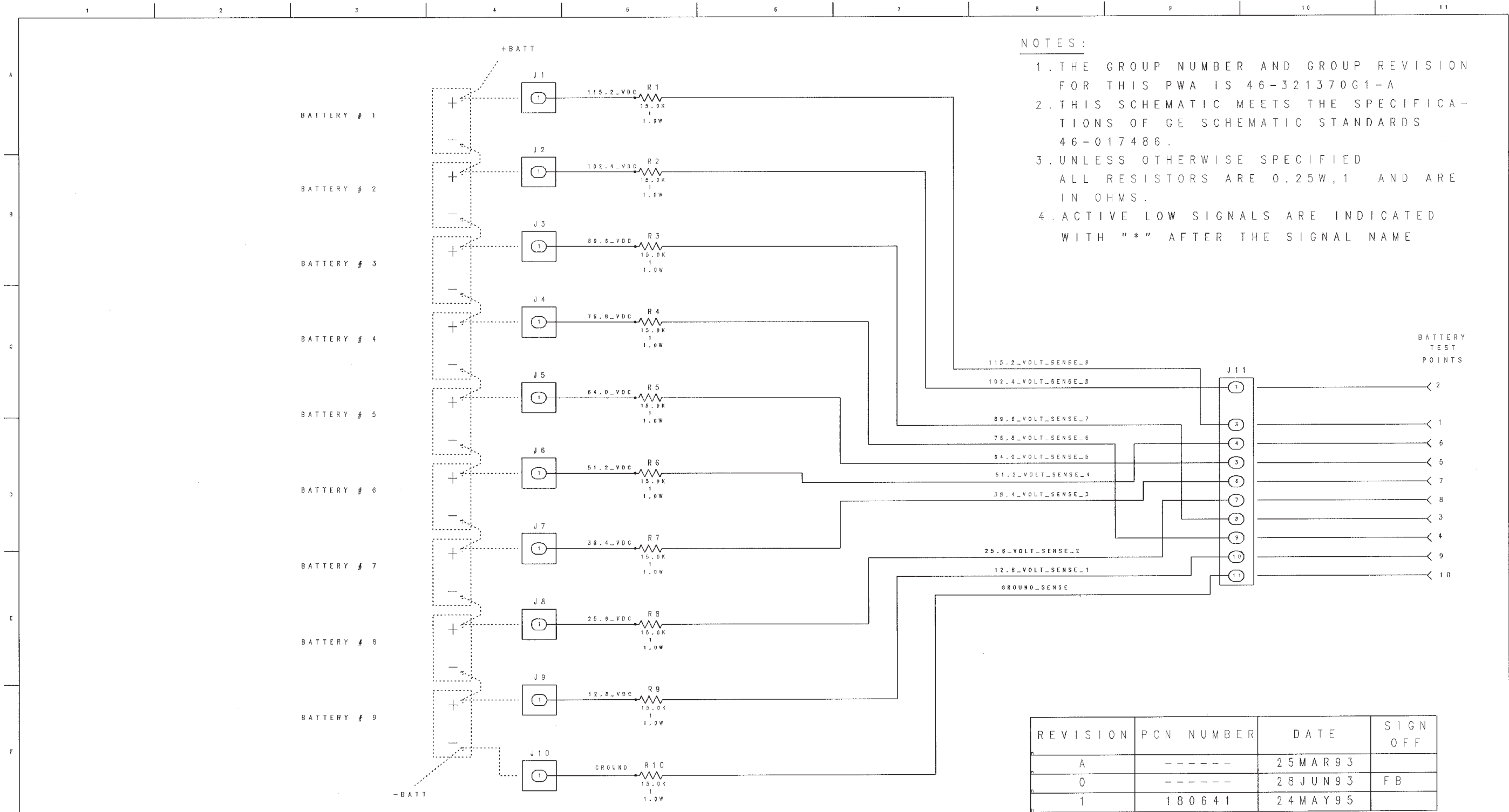
- 1.THE GROUP NUMBER AND GROUP REVISION FOR THIS PWA IS 2173060 C.
- 2.THIS SCHEMATIC MEETS THE SPECIFICATIONS OF GE SCHEMATIC STANDARDS 46-017486.
- 3.UNLESS OTHERWISE SPECIFIED:
RESISTORS ARE IN OHMS, 0.25W, 1%.
CAPACITORS ARE IN FARADS.
INDUCTORS ARE IN HENRIES.
- 4.ACTIVE LOW SIGNALS ARE INDICATED WITH "*" AFTER THE SIGNAL NAME



SECTION 15
AMX2 A3 A1 BATTERY SENSE CIRCUIT
46-321370G1



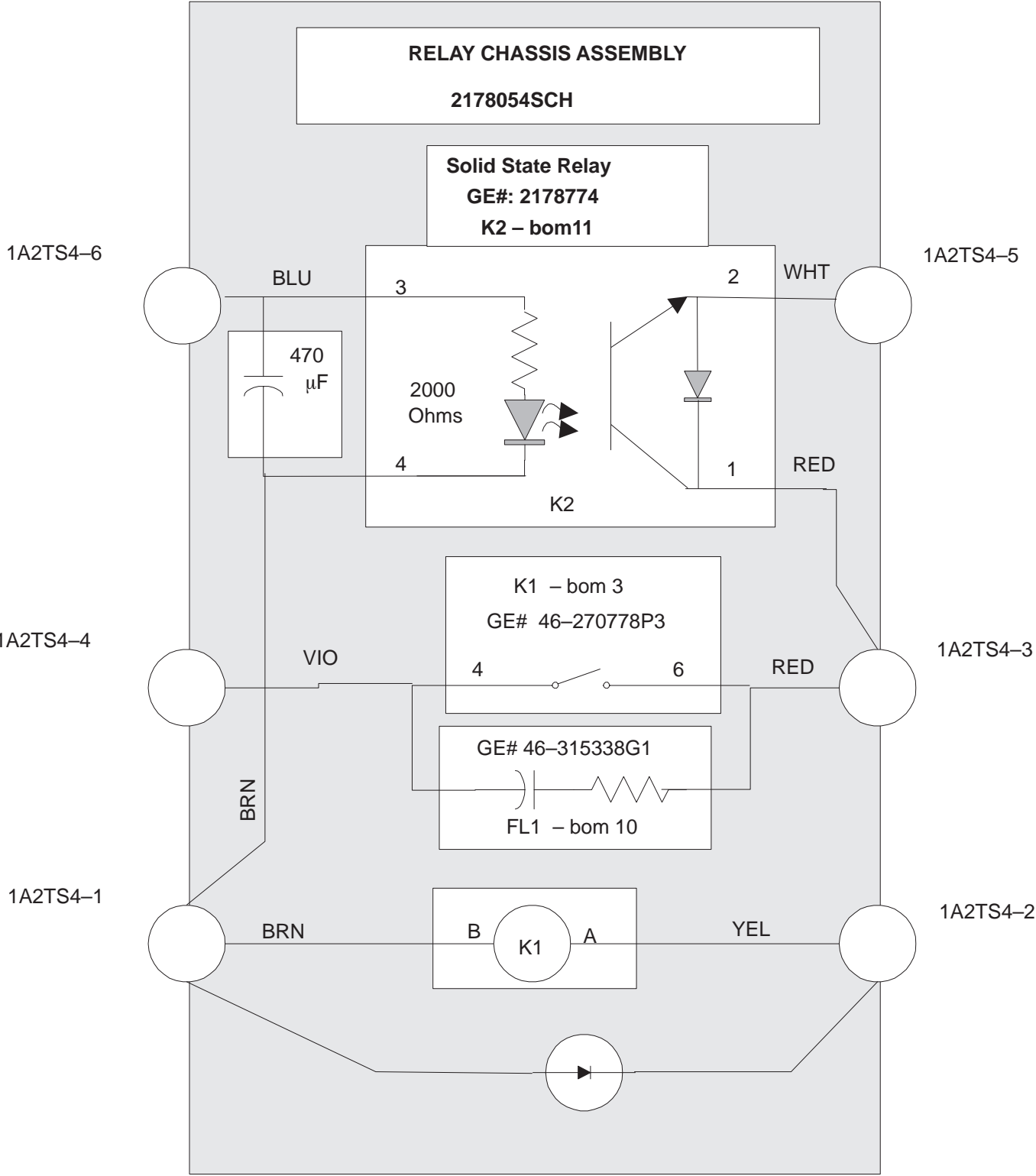
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| | | | | | | | | | |
|-------------------------|---------------------|---|----------------|---------------|-------------------------|------------|--------------|--|--|
| BLOCK PATHNAME | | /user/amx-4/gates-battery_bd SHEET 1 OF 1 | | | | | | | |
| REV 1 | BATTERY SENSE | | LOCATION CODE | APPROVALS | GE MEDICAL SYSTEMS | REVISIONS | | | |
| DRAWING NO. 46-321370-S | FIRST MADE FOR AMX4 | | XXXX-XXX-XXX | | MILWAUKEE WI | 1 | GT 24 MAY 95 | | |
| SHT. 1 | CONT. ON | DATE 24-FEB-93 | ISSUED | | | PCN 180641 | | | |
| NO. | SHT. NO. | MADE BY 8. VOIGHT | DATE 28-JUN-93 | PRINTS TO 404 | TOM HELMINIAK 28-JUN-93 | | | | |

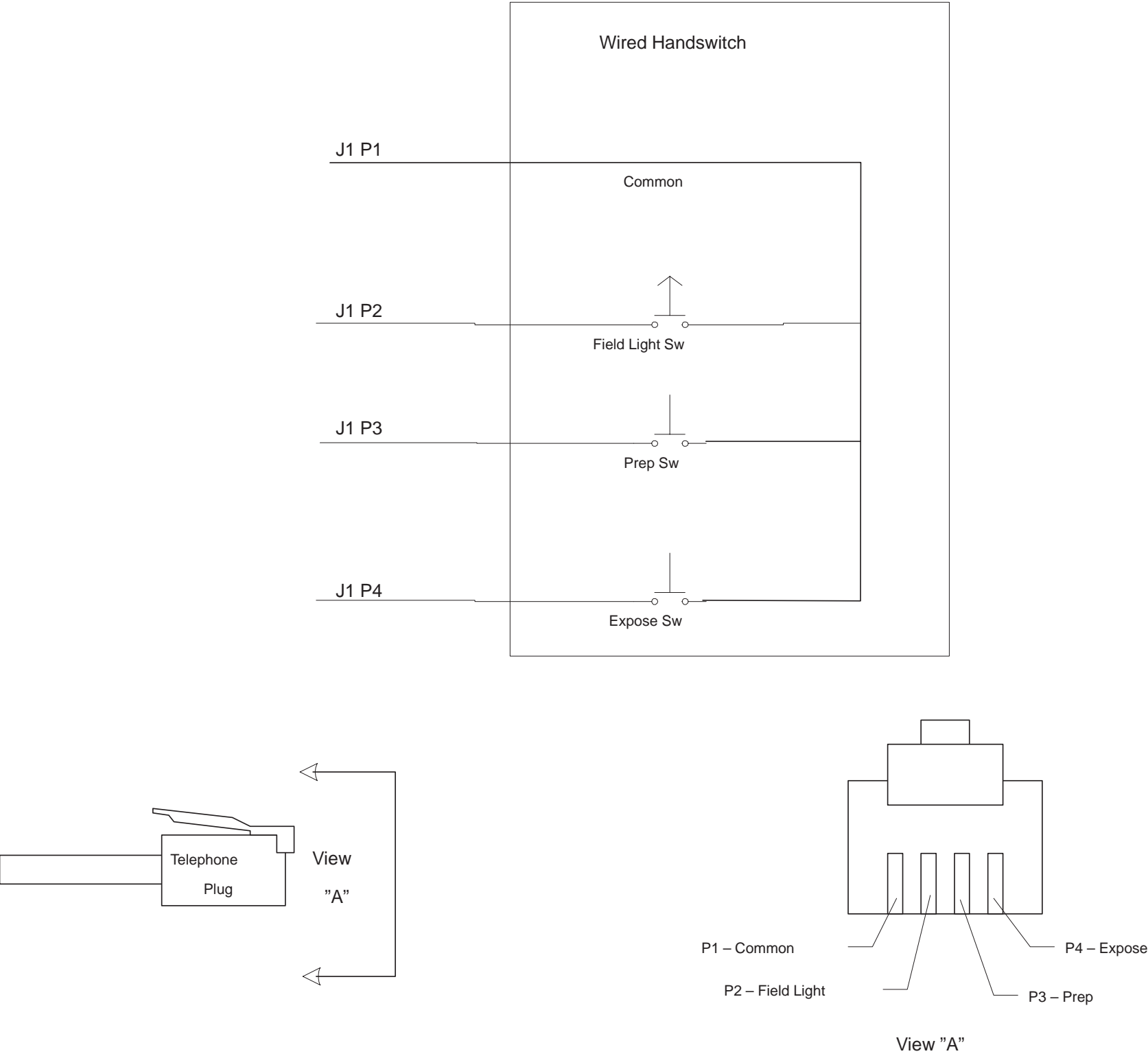
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SECTION 16
RELAY CHASSIS ASSEMBLY 2178054
AMX1 A2 R1
2178054SCH REV 1



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SECTION 17
HANDSWITCH
AMX1 2



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GE Medical Systems

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